



NE: CENTRAL 3617.  
MS: "CHEMICUS,  
LONDON" (2 Words).

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION, WITH  
DIARY 20/- PER ANNUM  
SINGLE COPIES 9d.

107

JUNE 12, 1920.

VOL. XCII.



## THE BEST HOUSE FOR ALL PHARMACEUTICAL PRODUCTS

*Proprietors of the "Silver Churn" Dairy Preparations.*

**OLDFIELD, PATTINSON & Co.**  
TELEGRAMS: "OPIUM,"  
PHONES: City 984 & 4038. **MANCHESTER.**

# Allenburys LIQUID BEEF



Why sell imported  
meat juices which  
show a smaller  
and uncertain  
profit return ?

*A good selling line showing  
25% protected profit (P.A.T.A.)*

**ALLEN & HANBURY, LTD**  
37, LOMBARD ST LONDON, E.C.3.

*In bottles with cartons, retailing at 3/6.*





# A Record Holiday Year

IS  
**YOUR OPPORTUNITY**  
and **MAY, ROBERTS'.**

**Q** It is obvious from the heavy orders for Holiday requisites that are reaching us by every post that Chemists throughout the country are alive to the fact.

Our stocks are not inexhaustible, and it is

***FIRST COME, FIRST SERVED!***

**Bathing Caps, Paddlers, Holdalls, Sponge Bags,  
Tooth Brushes, Hair Brushes, Vacuum Flasks.**

---

---

**Shall we send Price List?**

---

---

**MAY, ROBERTS & CO., LTD.,**  
**7-13 Clerkenwell Road, LONDON, E.C. 1.**  
and at 16 WESTMORELAND STREET, DUBLIN.





**PERFECT SOLUBLE**  
**ESSENCE OF**  
**LEMON**

**IS A PURE FRUIT ESSENCE  
MADE ENTIRELY FROM LEMONS**

It is Guaranteed Free from Terpeneless  
and Sesquiterpeneless Oil of Lemon,  
Oil of Limes, Artificial Citral or  
any other Admixture.

THE ENORMOUS DEMAND FOR THIS PERFECT  
ESSENCE IS A PROOF OF ITS SUPERLATIVE  
QUALITY, AND NOTHING APPROACHING IT IN  
FLAVOUR OR AROMA CAN BE MADE FROM  
TERPENELESS OILS BY ANY PROCESS.

THE SALE OF LEMONADE DEPENDS  
ENTIRELY ON THE FLAVOURING USED.

---

**STEVENSON & HOWELL, Ld.**  
**SOUTHWARK ST., LONDON, S.E.1.**

Established 1882.

*"Rownsons  
have it!"*

**SALES BY TENDER.**

It will pay you to watch carefully the lists of goods offered for sale by tender, appearing in the daily press.

Fix that firmly in mind. When customers demand, meet their requests. If you cannot, replenish stocks from the Biggest Business Deal on Record. £5,000,000—£10,000,000 worth of Government Surplus Stores, 50,000 items.

# CASTOR OIL (Bulk Offer by) "D" Dept.

Pure Pharmaceutical  
1st Pressings  
2nd Pressings

In Bulk, Barrels,  
Drums and  
Cases

*Large Quantities Available.*

## SOAP.

Pale Yellow, Crosfield's and Gossage's make, packed in 50-lb. boxes, containing  $20 \times 2\frac{1}{2}$ -lb. bars.

## BEESWAX.

Zanzibar, Abyssinian, Benguella, Mozambique. Packed in bags of  $1\frac{3}{4}$  cwt. each.

## RUSSIAN TALLOW.

Packed in 5-cwt. casks.

## DISINFECTANTS.

Sanitas,  
"Okal,"  
and other varieties.

## JELLY.

Petroleum.

We can also supply—

MINERAL, RAPE, SWEET and OLIVE OILS, GLOVES (RUBBER), ISINGLASS, PARAQUIT, VERMIJELLI, NAPHTHA-LINE PASTE, TURPENTINE.

Don't blame us if you are not supplied, we are announcing broadcast our desire to supply you. It is necessary for you to respond quickly in the manner indicated.

Telephone:  
Cent. 1070  
(10 lines).

**ROWNSONS**  
ROWNSON DREW & CLYDESDALE LTD

Cables  
"Rownsons  
Cent."

**ESTABLISHED 100 YEARS.**

**Head Office : 225 UPPER THAMES ST., LONDON, E.C. 4.**

**Works : ELEVATORS & CONVEYORS, Maiden Lane, YORK ROAD, N. 1.**

### Branches :

BELFAST ... 16 Donegall Square  
South.  
BIRMINGHAM ... 111 New Street.  
BRISTOL ... 3 Unity Street,  
College Green.  
LEEDS ... 2 Park Place.

GLASGOW ... 1552 Gt. Western Rd.,  
Anniesland.  
LIVERPOOL ... C.S.D., Queen's  
Drive, Walton-on-the-Hill.  
MANCHESTER... 70 Spring Gardens



# The GRAESSER-MONSANTO CHEMICAL WKS. LTD.

Works: RUABON, N. Wales

London Office: 62 London Wall, E.C. 2.

**CARBOLIC ACID CRYSTALS**

39/40 Ice and Detached  
40° Liquefied

**CRESYLIC ACID, ALL QUALITIES**

Including Grades  
Specially Purified

Ortho-Cresol 28/30 %

Meta-Cresol 98/100 %, 75/85 %, 60 %

Para-Cresol 32/32 %

ORTHO-AMIDOPHENOL  
PARA-AMIDOPHENOL

ORTHO-CHLORPHENOL  
PARA-CHLORPHENOL

## Salicylic Acid

Phones: Ruabon 3, London Wall 4613. Telegrams: "Graesanto Ruabon." "Graesanto, Ave. London."  
Cables: "Graesanto London."

# The GRAESSER-MONSANTO CHEMICAL WKS. LTD.

Works: RUABON, N. Wales

London Office: 62 London Wall, E.C. 2.

**PHTHALIC.  
ANHYDRIDE.**

Saccharin, Sol. & Insol.

Phenacetin.

Salicylic Acid.

Aspirin.

Acetanilid.

Glycerophosphates, Phenolphthalein.

Paranitrochlorbenzol.

Paranitrophenol.

**ANTHRANILIC.  
ACID.**

Vanillin.

Coumarin.

Salicylate of Soda.

Salol.

Chloral Hydrate.

Orthonitrophenol.

Phones: Ruabon 3, London Wall 4613. Telegrams: "Graesanto Ruabon." "Graesanto, Ave. London."  
Cables: "Graesanto London."

IF YOU DISPENSE

*Russolax.*

REG. DES<sup>m</sup>

YOUR CUSTOMERS

WILL RECEIVE

1. THE MOST PERFECTLY REFINED..  
PARAFFINUM LIQUIDUM B.P.  
EVER PLACED AT YOUR DISPOSAL
  2. A CONSISTENTLY HIGH VISCOSITY  
VIZ 275 SECONDS AT 100° FAHR. (REDWOODS)
- 

IT WAS RUSSIAN OIL OF THIS KIND  
THAT WAS USED IN THE CLASSICAL  
WORK ON INTESTINAL STASIS.

DISTILLED & REFINED BY THE  
PHARMACEUTICAL DEPT.

*SILVERTOWN LUBRICANTS L<sup>td</sup>*

*MINOCO WHARF.*

*WEST SILVERTOWN.*

*(Wholesale Only)*

E.16.



## INDEX TO ADVERTISERS

ALLEN & HANBURY, LD. ....	Cover	BURROW, W. & J., LD. ....	xxxviii	FRENKEL, L., <i>Olive Oil</i> .....	xxxiii
ALLEN, STAFFORD, & SONS, LD. ....	5	BURT, BOULTON & HAYWOOD, LD. ....	44	GARRATT, J. E., <i>New-skin</i> .....	xxxvii
ALLIANCE DRUG & CHEM. CO., <i>Chemicals</i> xii		CALLARD & CO., <i>Vitmar</i> .....	xxxix	GIGNOUX FRERES & BARBEZAT .....	xix
AMSTERDAM QUININE WORKS .....	xxii	CALMAN, W. H. & CO., <i>Perfumery</i> .....	22	GILLARD GORDON, LD., <i>Eucalyptus Oils</i> xvi	
ANALO-FRENCH DRUG CO., LD. ....	xxiii	CARAVEL CO., <i>Chemicals, &amp;c.</i> .....	22	GOODWIN, P., & CO., <i>Boxes</i> .....	xlix
ANODOLO, LD., <i>Dental Paste</i> .....	26	CARMICHAEL, F. J., & CO., <i>Canomiles</i> ... ix		GOUGH, KIDSTON & CO., <i>Chemicals</i> .....	ii
ANZORA PERFUMERY CO., LD., <i>Hair Cream</i> 32		CARRERAS, A. & B., <i>Toilet</i> .....	26	GOWER, J., <i>Books</i> .....	Col. Supp.
ARION CHEMICALS CO., <i>Saccharin</i> .....	xiv	CARTER, R. E., LD., <i>Photo Albums</i> .....	liii	GRASSER-MONSANTO CHEMICAL WORKS, LD. ....	3
ARRIOHI, E. S., <i>Clinical Thermometers</i> 15		CELLOPHANE CO., <i>Wrapping Material</i> lxi			
AYRTON, SAUNDERS & CO., LD., <i>Wholesale Druggists</i> .....	li	CENTUPLE MANFO. CO. ....	36	GREFF, R. W., & CO., <i>Chemicals</i> ... 5, 7	
BAILLY, ROBERT, & SONS, LD., <i>Surgical Dressings</i> .....	10	CEPHOS, LD., <i>Proprietary</i> .....	xxiv	GUILDHALL CORR. PAPER CO. ....	xxxiii
BAIRD, JNO., <i>Artificial Eyes</i> .....	li	CHATELAIN, J. L., <i>French Proprietaries</i> xiii		HAMMOND, JEFFERY & CO., <i>Chemicals</i> .....	vi
BAKER, PARSON C., <i>Chemists' Valuer</i> .....	Col. Supp.	CHEMICAL WORKS, BRUG, LD. ....	xxi	HAMPSHIRE, F. W., & CO. ....	lvii
BANDONNO QUININE FACTORIES .....	xxii	CHEMICAL WORKS MADDERY, LD., <i>Male Fern Extract</i> .....	xix	HANCOCK'S, LD., <i>Sundries</i> .....	xl
BANISTER STREET WORKS, LD., <i>Machinery</i> xlv		CHESEBROUGH MANUFACTURING CO. ....	34	HARPER, C. R., STAGO & MORAN, LD., <i>Tablets</i> .....	xv
BATTLE, MALTBY & BOWER, <i>Sheep Dips</i> lviii		CHESMAN, F. & CO., <i>Olive Oil, &amp;c.</i> xxxv		HARWOOD BROS., <i>Pipes</i> .....	lii
BRETHAM, M., & SON, <i>La-Rola</i> .....	32	CHRISTY, T., & CO., <i>Shampoo</i> ... i, xxvii, ix		HARRINGTON BROS., LD., <i>Chemicals</i> .....	v
BELL, J., & CRODEN, LD. ....	Text	CLARK, C. S., <i>Cachets</i> .....	ix	HERTZ & CO., <i>Fluoroxon Sprayers</i> .....	xlv
BELMAD TYRE CO., LD., <i>Rubber Sponges</i> lxiii		CLAYTON ANILINE CO., LD. ....	vii	HEYMANS, RENÉ, <i>Douche Fittings</i> .....	xlii
BENZOATE, LD., <i>Chemicals</i> .....	lxiii	COLEMAN & CO., <i>Winearns</i> .....	xxxvi	HIEGENTICH & POSE <i>Chlorophyll</i> .....	16
BERDOE & FISH .....	Col. Supp.	COLLEGE OF PRECEPTORS .....	liv	HILGER, ADAM, LD., <i>Refractometers</i> .....	16
BERK, F. W., & CO., LD. ....	vi	CONDUIT, FRANK A. ....	1	HOFFMANN-LA ROCHE CHEMICAL WORKS LD., <i>Alkaloids, &amp;c.</i> .....	xi
BERRY'S, J. B., SONS, CO. INC., <i>Pet. Prods.</i> .....	xxxii	CONNELL, A. & CO., <i>Toilet</i> .....	18	HOLLAND'S DISTILLERY, LD. ....	18
BERTON, ARTHUR, LD. ....	xl	COOK, E., & CO., LD., <i>Soaps</i> .....	25	HOLLIDAY, L. B., & CO., LD., <i>Chemicals</i> x	
BIGOT, T., LD., <i>Sheep Dips</i> .....	lvii	COOPER LABORATORY, <i>Aspirin Tablets</i> ... xiv		HOLT, THOMPSON & CO., <i>Salicylic Acid</i> ix	
BISHOP, ALFRED, LD., <i>Fruit Saline</i> ... xxxix		COOPER, SON & CO., LD., <i>Cachets</i> .....	liv	HOUGH, HOSEASON & CO., LD. ....	xxi
BLADEN, VICTOR, & CO., <i>Chemicals</i> .....	xi	CRAMPTON, J., & CO., LD. ....	xxxviii	HOVENDEEN, R., & SONS, LD., <i>Toilet Preps.</i> .....	13
BLOCH, MARCEL, <i>Citon</i> .....	xxix	CUPAL, LD., <i>Vanishing Cream</i> .....	44	HUBBUCK, T., & SON, LD., <i>Oxide of Zinc</i> .....	ii
BLYTHE, W., & CO., LD., <i>Epsom Salts</i> ... v		CURASOL SOCK CO., <i>Boric Socks</i> .....	xl	HUSKINO, C. L., INC., <i>American Drugs</i> xvi	
BOAKE, ROBERTS, A., & CO., LD., <i>Essences</i> .....	xxxvii	C.V.O. CHEMICAL WORKS, LD. ....	xxxiv	IGLODINE CO., LD. ....	xxviii
BOERVOIS, A., & CIE, LD. ....	29	DAVIS, W., <i>Shopfitting</i> .....	lxi	INORAM, J. G., & SON, LD. ....	xli
BRADSTREETS (BRITISH), LD. ....	xxv	DE VILBISS CO., LD., <i>Atomisers, &amp;c.</i> ... xlv		JACKEL ET CIE (of Paris), LD., <i>Hair Cream</i> 34	
BRITISH CELLULOSE & CHEMICAL MNFO. CO., LD., <i>Calcium Carbide</i> .....	viii	DEARBORN, LD., <i>Toilet Specialities</i> .....	35	JACKSON CO., <i>Toilet Preps.</i> .....	27
BRITISH DIAMANT CO., LD. ....	xxxvi	DEE OIL CO., LD., <i>Petroleum Jelly</i> ... xxxii		JACKSON, E., & CO., LD., <i>Glossettes</i> ... xviii	
BRITISH DRUG HOUSES, LD. ....	Cover	DELPHINUS MANFO. CO., <i>Toilet Preps.</i> .....	36	JOB BROS., <i>Cod Liver Oil</i> (Newfound-land) .....	38
BRITISH RUBBER MANFRS., LD. ....	iv	DEPRETER, A. E., <i>Brushes, &amp;c.</i> .....	lx	JOHNSON, A., & CO. (LONDON), LD., <i>Drugs</i> iii	
BRONAGE, G., & CO., <i>Ess. Oils, &amp;c.</i> .....	16	DICKESON, R., & CO., <i>Medicinal Snuff</i> xlii		JOSEPHS, PHILIP, & SONS, LD. ...Col. Supp.	
BROOKS, PEEL, & CO., LD., <i>Machinery</i> ... xvi		DIXON, W. B., LD., <i>Foot Salve</i> .....	lvii	JUNO FRATELLI, <i>Ess. Oils</i> .....	21
BROWNING, THE WM. CO., LD. ....	Text	DUBBIN, R. J., <i>Photographic</i> .....	lii	KAY BROS., LD., <i>Proprietaries</i> .....	lviii
BULL, D. W., <i>Capsules</i> .....	Text	DUDLEY & CO., <i>Cash Tills</i> .....	lxi	KATE, G. E., LD., <i>Ess. Oils</i> .....	20
BUROO, WARREN & RIDGLEY, LD., <i>Combs</i> ix		DUN, R. T., <i>Capsules</i> .....	xviii	KENT, G. B., & SONS, LD., <i>Brushes</i> ... ix	
BURROOKE, BURBIDGES & CO., <i>Toilet Preps.</i> .....	12	EASTERN & RUSSIAN TRADING CO., LD. ... xx		KERFOOT, T., & CO., LD., <i>Distols</i> .....	17
BURNSIDE & CO., <i>Eucalyptus</i> .....	xvi	EDGE, W., & SONS, LD., <i>Movol</i> .....	xxviii	KHAMBATA, J., & CO., <i>Tartaric Acid</i> ... viii	
BURROUGH, J., LD., <i>Absolute Alcohol</i> Text		ELLIOTT OPTICAL CO., <i>Optical Goods</i> .....	ii	KNOX-WALKER, J., & CO., LD. ....	24
BURROOKS WELLCOME & CO., <i>Price Changes</i> .....	43	EMPIRE PERFUMERY CO., <i>Henna Shampoos</i> 19		LACOSTE ET CIE, <i>Dentifrice</i> .....	34
		ERASMUS CO., LD., <i>Toilet Preps.</i> .....	23	LANE, C. & SONS, <i>Chemicals</i> .....	xi
		EVAN-WILLIAMS CO., LD., <i>Shampoo</i> .....	32	LANE HALL, R., & CO., LD. ....	21
		FABER, A., & CO., <i>Bay Rum</i> .....	29	LANG, JULES, & SON, <i>Glassware</i> .....	41
		FALCONER & CO., LD., <i>Price Changes</i> ... xxiv		LANKSHEAR, WICKSTEAD & CO., LD. ....	36
		FENTIMAN, A. G., LD. ....	ix		
		FERRER, R., LD., <i>Ess. Oils</i> .....	xiii		
		FIELD, C. W., LD., <i>Saponine</i> .....	xiv		
		PINK, F., & CO., <i>Gums</i> .....	liv		
		FORD, SHAPLAND & CO., LD., <i>Printing</i> xlix			
		FORSYTH, E., & SON, <i>Machinery</i> .....	xlvii		

[Continued overleaf.]

ALLEN'S EXTRACTS are the result of 80 years' skill and experience.

STAFFORD  
ALLEN  
& SONS, Ltd.

GREEN

Cowper Street,  
Finsbury,  
LONDON, E.C. 2EXT. BELLADON. VIRIDE, P.B. 1898  
" HYOSCYAMI VIRIDE, P.B. 1898  
" HYOSCYAMI (1st Year)

EXTRACTS

EXT. HYOSCYAMI, P.B. 1914  
" BELLADON. SICCUM, P.B. 1914  
FOL. BELLADONNÆ ELECT.  
" HYOSCYAMI BIENN. (2nd Year)Telegrams:  
"Persic, Finsquare,  
London."Telephone:  
London Wall 6556  
(3 lines).

**INDEX—cont.**

LATHROP, H. R., & Co. Inc., <i>Wild Cherry Bark</i> .....	xvii	MURPHY, J. F., <i>Antiphlogistine</i> .....	xxvi	SIEBE, GORMAN & Co., <i>Respirators &amp;c.</i> .....	xli
LAWRENCE, E., & Co., <i>"Gels-it"</i> .....	xvi	MYERS, LUMOS & Co., <i>Combs, &amp;c.</i> .....	lxiii	SILVERTOWN LUBRICANTS, <i>Ld.</i> .....	xxxv
LECONTE, R., & Co., <i>Capping Materials</i> .....	xlviii	NASH, KENTON & Co., <i>Ld., Photography</i> .....	lii	SIMOND, S. D., & Co., <i>Ld., Tapon</i> .....	xxxv
LEICESTER RUBBER CO., <i>"Mend-a-Tear"</i> .....	xlii	NEWBALL & MASON, <i>Herb Extract</i> .....	xxxviii	SMITH & Co., <i>Fly Catcher</i> .....	lv
LEIGHTON LABORATORIES, <i>Ld., Shampoo</i> .....	liv	NILDE, <i>Face Powder</i> .....	31	SMITH, T. & H., <i>Ld., Drugs</i> .....	lii
LEVERMORE, A., & Co., <i>Ld., Precip.</i> .....	liv	NOIA, <i>Photographic</i> .....	lii	SOCIETEIT VOOR CHEMISCHE INDUSTRIE	
<i>Chalk</i> .....	liv	NORRIS BROS., <i>Ld., Sulphur</i> .....	x	KATWIJK, <i>Caffeine, &amp;c.</i> .....	xi
LILLY, ELI & Co., <i>Tablets, Dental Lotion</i> .....	Cover	OAKLEY, JOHN, & SONS, <i>Ld., Knife Polish</i> .....	1	SOUTHAIR BROS. & BARCLAY, <i>Ld. Col. Supp.</i>	
LINARIS, <i>Ld., Toilet Preps.</i> .....	29	ODCLON, <i>Ld., Perfumery</i> .....	22	SPATULA PUBLISHING CO., <i>Books</i> .....	li
LINCOLN & MIDLAND COUNTIES DRUG CO., <i>Ld.</i> .....	9	OLDFIELD, PATTINSON & Co., <i>Pharm. Preps.</i> .....	Cover	SPENCE, H. B., <i>Soothers</i> .....	li
LINTON, HUBBARD & ANDREW .....	xviii	P.A.T.A. .....	xxv	STARUP, G. C., <i>CHEMICAL WORKS</i> .....	xxv
LICENSES & GENERAL INSURANCE CO., <i>Ld.</i> .....	lii	PAGE, CHAS., & Co., <i>Ld., Chemicals</i> .....	viii	STEARNS, F., & Co., <i>Pepsins</i> .....	xxv
LLOYDS BANK, <i>Ld.</i> .....	xxvi	PAPIER POUDRE, <i>Ld.</i> .....	8	STEPHENS BROS. & Co., <i>Ess. Oils</i> .....	xxx
LOCKWOOD, J. R., & Co., <i>Stationery</i> .....	lvi	PARKE, DAVIS & Co., <i>Tooth Paste</i> .....	30	STERN, <i>Ld., Oils, Petroleum, &amp;c.</i> .....	xxx
LOFTHOUSE & SALTER, <i>Ld., Health Salts</i> .....	xxxix	PARNALL & SONS, <i>Shopfittings</i> .....	151	STEVENSON & HOWELL, <i>Ld.</i> .....	xxx
LONABARC TRADING CO., <i>Essential Oils</i> .....	20	PEARS, A. & F., <i>Ld., Soaps</i> .....	24	STEPHENSON, R. A., <i>Ld., Gummed Tape</i> .....	xxx
LONDON COLLEGE OF PHARMACY .....	liv	PEAT PRODUCTS (SPHAGNUM), <i>Ld.</i> .....	xxiv	STUROS, J. & E., <i>Ld.</i> .....	xxx
LONDON RUBBER CO. .....	xliv	PEMOL PRODUCTS CO., <i>Ld., Dental Cream</i> .....	14	SUTCLIFFE VENTILATING & DRYING CO., <i>Ld.</i>	
LUMEX, <i>Ld., Photographic</i> .....	33	PERRY & HOPE, <i>Ld., Malt Extract</i> .....	38	SUTER, W., & Co., <i>Saccharin</i> .....	xxv
LYSOL, <i>Ld., Toilet Preps.</i> .....	33	PHARMACEUTICAL LANOLINE CO., <i>Lanoline</i> .....	xxiv	THERAPEUTIC FOODS CO. .....	xxx
MACAJONE, G., <i>Ess. Oils</i> .....	21	PHILIP, CHAS., <i>Price List</i> .....	xxv	THORNTON, S., <i>Ld., Methyl Spirit</i> .....	xxx
M'GLASHAN, D., <i>Abdine</i> .....	li	POITER & CLARKE, <i>Ld., Creams, &amp;c.</i> .....	xxx	TIMPSON, JOHN, & Co., <i>Ld.</i> .....	xxx
MACANDREWS & FORBES, <i>Ld., Liquorice</i> .....	xviii	PRESCOTT & Co. .....	Text	TOMODA & Co., <i>Japanese Chemicals, Drugs</i> .....	xxx
MACFARLAN, J. F., & C., <i>Alkaloids</i> .....	ix	PRESTON'S LIVERPOOL DIST. CO., <i>Ld.</i> .....	xxvi	TOOMBS, A., & Co., <i>Capping Skins</i> .....	xl
MACDON'S COMFORTINE CO. .....	xxvi	PRICE, A. S., & Co., <i>Ld.</i> .....	xli	TURNER BROS. ASBESTOS CO., <i>Ld.</i> .....	xl
MAGNUS, MARIE & REYNARD INC. .....	20	QUELCH, HENRY C., & Co. .....	37	VAN DER HEYDEN, T., <i>Puffs, &amp;c.</i> .....	xl
MALMBERG, K., <i>Petro. Jelly &amp;c.</i> .....	xxxiii, xxxiv	RAOUL FRERES, <i>Chemicals, &amp;c.</i> .....	li	VAUGHAN PAUL, T. W., <i>Photographic</i> .....	xl
MARKE & Co. LONDON, <i>Ld., Sponges</i> .....	lxii	RAPHAELS, <i>Ld., Spectacles, &amp;c.</i> .....	lv	VELDT LABORATORY, <i>Toilet Cream</i> .....	xl
MARTIN & Co., <i>Toilet Specialists</i> .....	24	RAWORTH, J. E., & MOSS, <i>Pat. Agents</i> .....	li	VENESTA, <i>Ld., Coll. Tubes</i> .....	xl
MARTINDALE, W., <i>Compressed Moss</i> .....	xliv	RAYMENT, K., <i>Superox</i> .....	xxli	VIRGINIA PRINTING CO. .....	xl
MASON BROS. & CHAPMAN .....	xliv	REDDGRAVE, BUTLER & Co., <i>Paraffin</i> .....	lxiv	VISCOSA CO., <i>Ld., Bottle Cappings</i> .....	xl
MAW, S., SON & SONS, <i>Ld.</i> .....	11	ROBERTS, <i>Ld., Toilet Preps.</i> .....	35	WAIDE, THOS., & SONS, <i>Chemists' Printing</i> .....	xl
MAY, ROBERTS & Co., <i>Ld.</i> .....	Cover	ROBERTS' PATENT FILLING MACHINE CO. .....	xlvi	WALLACE HEATON, <i>Ld.</i> .....	xl
MEADE-KING, ROBINSON & Co., <i>Ld.</i> .....	xxlii	ROQUES, FERDINAND, <i>Alkaloids, Cacao-lylates</i> .....	xx	WALTON, T. H., & Co., <i>Ld., Saccharin</i> .....	xl
MENDINE CO., <i>Cement</i> .....	xlviii	ROSE, J. L., <i>Pyrogallol Acid</i> .....	ix	WELLS, A. O., & Co., <i>Bung Pour</i> .....	xx
MILLAR, A., & Co., <i>Ld., Quinine Wine</i> .....	xxxvi	ROWNSON, DREW & CLYDESDALE, <i>Ld.</i> .....	2	WENGERS, <i>Ld., Chemicals</i> .....	xl
MILNER, J., & Co., <i>Razors</i> .....	xlii	ROYAL PHARMACEUTICAL CO., <i>Ld.</i> .....	xix	WESTMINSTER COLLEGE OF PHARMACY	
MILNER'S CHEMICAL CO., <i>Straw Hat Cleaner</i> .....	lxi	ROZEN, L., & Co., <i>Chemicals</i> .....	vi	WHIFFEN & SONS, <i>Ld., Emetine Salt</i> .....	xl
MIRFIN, J., & SON, <i>Ld., Safety Razors</i> .....	xlviii	RUCH, A., & Co., <i>Ld., Bottles</i> .....	xlx	WHITAKER & Co., <i>Hat Dyes, Household Dyes</i> .....	xl
MORRIS, LITTLE & SON, <i>Ld., Sheep Dip, &amp;c.</i> .....	lvii	SACCHARIN CORPORATION, <i>Ld., Novocain</i> .....	iv	WILLIAMS BROS. & Co., <i>Colours</i> .....	xl
MOUSLEY, F. A., <i>Beaverpuf</i> .....	28	SANAGEN CO., <i>Ld., Nerve Food</i> .....	39	WILLIAMSON BROS., <i>Sundriesmen</i> .....	xl
		SANTAS CO., <i>Ld., Disinfectants</i> .....	Text	WILLIS, LOW & DRIFF, <i>Perfume Brick</i> .....	xl
		SCHOLL MFG. CO., <i>Ld., Foot Appliances</i> .....	xliv	WILSON, TALBOT, <i>Corn Pencils</i> .....	xl
		SCHUTZE, F., & Co., <i>Puffs</i> .....	24	WINTER, E., & Co., <i>Ld., Silver Leaf, &amp;c.</i> .....	xl
		SCURR, C. A., <i>Correspondence Course</i> .....	liv	WILCOX, JOZEAF & Co. .....	xl
		SEUR, H. W., <i>Manicure Requisites</i> .....	24	WOOLCOTE, W. G., <i>Surgical</i> .....	xl
		SEQUARINE, <i>Ld., Proprietary</i> .....	xxvii	WRIGGLESWORTH, E. H., <i>Ld.</i> .....	xl
		SHADEINE CO., <i>Hair Dyes</i> .....	liv	YORKSHIRE PEARL BARLEY MILLS, <i>Ld.</i> .....	xl
				ZEAL, G. H., <i>Clinical Thermometers</i> .....	xl

# QUININE

MAARSSSEN

QUININE and QUININE SALTS.

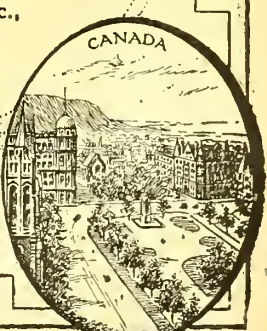
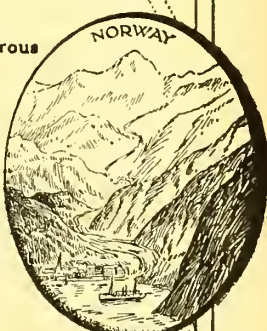
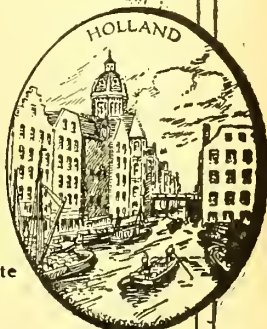
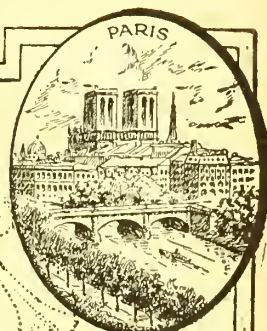
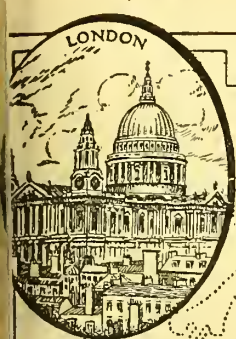
Unexcelled in Uniformity of Quality,  
Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE,  
and their SALTS.

MANUFACTURED BY  
NEDERLANDSCHE KININEFABRIEK, MAARSSSEN, HOLLAND

AGENTS.—R. W. Greeff and Company,  
Thames House, Queen Street Place,  
LONDON, E.C.4.





# PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS.

*R. W. GREEFF & Co. offer at lowest prices  
the following products :—*  
(WHOLESALE QUANTITIES ONLY)

Acetanilid	Guaiacol Carbonate	Potash Sulpho-
Acetyl Salicylic Acid	Hexamine	Guaiacolate
Amidol	Homatropine	Quinidine and Salts
Amidopyrin	Hydroquinone	Quinine and Salts
Barbitone	Ichthyl Substitute	Quinoidine
Benzoic Acid	Kelene	Resorcin
Benzamine Hydrochlor	Lemon Oil	Saccharin
Benzamine Lactate	Lithia Carbonate	Salicylic Acid
Benzo Naphthol	Lecithin	Salicylate of Soda
Beta Naphthol	Menthol	Salol
Bromides	Mercurials	Soda Benzoate
Calcium Lactate	Methylene Blue Medicinal	Soda Hyposulphite
Chloral Hydrate	Methyl Salicylate	Soda Sulphite Anhydrous
Cinchonine and Salts	Metol	Sugar of Milk
Cinchonidine and Salts	Paraldehyde	Tannic Acid
Citric Acid	Peppermint Oil	Tannin Albuminate
Cocain	Pepsine	Tartaric Acid
Coumarin	Peptone	Terpineol
Creosote Carbonate	Phenacetin	Terpine Hydrate
Eucalyptus Oil	Phenazone	Theobromine
Gallie Acid	Phenolphthalein	Thymol Crystals
Glycerophosphates	Pyrogallie Acid	Vanillin

## R. W. Greeff & Co.

THAMES HOUSE, QUEEN STREET PLACE,  
LONDON, E.C.4.

MANCHESTER BRANCH  
Lloyd's Bank Buildings,  
King Street.

NEW YORK AGENTS  
R. W. Greeff & Co., Inc.,  
78, Front Street.

# PAPIER POUDRÉ

## AND "POPPŒA" PREPARATIONS.

TRADE

MARK

**BRITISH MADE  
GOODS**



"LEHCARESOR."

*Papier Poudre*

**Our Sunburn Tint  
For Landworkers  
and  
Seaside Visitors.**

Booklets . . . . 8d. & 1/4  
5/- & 10/- per doz. net.

REGISTERED



**PAPIER POUDRÉ, LTD.**  
20 Baker St., Portman Sq., London, W.  
and in Paris.

*Beware of Spurious Imitations.*

**NOTE OUR TRADE MARKS, AS ABOVE.**

### NEW PAPIER POUDRÉ PRICES.

WHITE, ROSE, or RACHEL Tints, 4d., 6d., 8d., and 1/4 size Booklets,  
2/8, 3/9, 5/-, and 10/- per dozen net respectively.

SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per dozen net.

REFILLS to MIRROR CASES in WHITE or RACHEL . . . . . 2/8 per doz. net.  
1/4 SHAVING PADS, FOR USE AFTER SHAVING (unscented, white only) 10/- " "

### THE ALL-BRITISH "POPPŒA" PREPARATIONS.

*"Poppœa"*

### NEW PRICES.

ROUGE is most popular. It is put up in most convenient form, and is Nature Understudy.

IN PADS, 1/- each.  
8/- per doz. net.

IN MIRROR CASES, 1/4 each, 10/- per doz. net.  
REFILLS, 6d. each, at 3/9 per doz. net.

"POPPŒA" MASSOLINE SKIN FOOD, in Jars, 1/2, 2/6 & 3/6 each; 9/6, 24/- & 28/- doz. net respectively

"POPPŒA" CIRCASSIAN CREAM " 1/2, 2/6 & 3/6 " 9/6, 24/- & 28/- "

"POPPŒA" CRÈME POUDRÉ, in Bottles, 1/2 & 3/6 each; 9/6 & 28/- doz. net respectively.

**PAPIER POUDRÉ, Ltd., 20 BAKER STREET, LONDON, W.1**



# Clarke's Blood Mixture

## AND OTHER PREPARATIONS

Owing to the increase in cost of Material, Labour, &c., the Lincoln and Midland Counties Drug Co., Limited, find it necessary to advance the face value price of their Preparations to full extent allowed by the Inland Revenue Stamp, viz.:—**1/3, 3/-, 5/- and 12/- the Minimum Retail Selling Prices** respectively, instead of 1/1½, 2/9, 4/6, and 11/- as heretofore.

### BEST WHOLESALE TERMS

		£	s.	d.		£	s.	d.	
3/-	size Clarke's Blood Mixture ...	1	7	0	per dozen	16	4	0	per gross net
12/-	" " " " ...	5	8	0	"	64	16	0	" net
1/3	" Clarke's Patent Skin Lotion ...	0	11	0	"	6	12	0	" net
1/3	" Clarke's Miraculous Salve ...	0	11	0	"	6	12	0	" net
3/-	" " " " ...	1	7	0	"	16	4	0	" net
5/-	" " " " ...	2	4	6	"	26	14	0	" net
1/3	" Clarke's Special Aperient Pills ...	0	11	0	"	6	12	0	" net
3/-	" " " " " " ...	1	7	0	"	16	4	0	" net
5/-	" " " " " " ...	2	4	6	"	26	14	0	" net
1/-	" Clarke's Medicated Soap ...	0	9	0	"	5	8	0	" net

No order supplied direct for less amount than £16 4s., which may be an assorted order for Clarke's Blood Mixture and other Preparations. All Wholesale Houses keep a large stock of our Preparations, and can supply smaller orders promptly.

**TERMS**—Prompt Cash 7 days from date of invoice. **Carriage paid on £100 orders** for cash in 3 days from date of invoice.

**Cases** charged at cost and allowed for in full when returned in good condition.

Satisfactory Trade references required in opening new accounts.

**Above Prices will give a Profit of  
33 $\frac{1}{3}$  % on cost to the Distributors**

Gummed labels with revised price will be supplied on application.

Sole Proprietors:

**THE LINCOLN & MIDLAND COUNTIES  
DRUG CO. LTD.**

**PARK STREET, LINCOLN**



## High-Class Surgical Dressings

London Offices : 151-157 GOSWELL ROAD, E.C. 1.

# BE WISE !

AND TAKE ADVANTAGE OF THESE OFFERS

### 1. White Open Wove Bandages.

Special Quality, 6 yards long only. All widths from 1 in. to 6 in. At 18/- per gross per inch. Other widths in exact proportion.

### 2. White Open Wove Bandages.

Hospital Quality, 6 yards long only. Three widths only, 1 in., 2 in. and 3 in. At 16/-, 32/- and 48/- gross respectively.

### 3. White Absorbent Gauze.

Hospital Quality, in 6 yard packets. 14/6 dozen. 1 gross at 14/-, 5 gross at 13/6.

### 4. Sanitary Towels.

Wrapped in plain blue paper, no name. Packets of 1 dozen towels.

No. 0	1	2	
11/9	15/-	19/3	per dozen packets.

ALL ABOVE OFFERED SUBJECT TO BEING UNSOLD

£5 orders carr. pai<sup>d</sup>. Wrappers charged, but returnable. 5% disc., Cash with Order

**ROBERT BAILEY & SON, Ltd.,**  
SURGICAL DRESSING MANUFACTURERS,  
MARRIOTT STREET MILLS, STOCKPORT.

CABLES UNDISPUTED, STOCKPORT. CODE A.B.C. 5<sup>TH</sup> EDITION.



# Maw's Page

S. MAW, SON & SONS, LTD. 712, ALDERSGATE ST LONDON, E.C.1.

NUMBER 452.  
JUNE 12, 1920.



## On Sponge Bags.

I think it is Hilaire Belloc who has written a book on "Nothing." Now, I can understand a man taking "Something" as the subject of a weighty tome. He would at least have a wide scope for his imagination.

But—"Nothing"—that is to say, less than the proverbial grain of mustard seed, less even than the Kaiser's chance of Paradise—so infinitely small is "Nothing" that the mind of man is staggered by the vastness of its smallness.

I have never read this book of Belloc's; it must be truly diverting—"Nothing" on every page, so to speak. Not difficult to index, anyhow.

I am amazed at his courage in undertaking and his determination in carrying it to a successful conclusion. Indeed, there is nothing I can say about "Nothing" that will express anything of my appreciation.

But what, most of all, brings me upstanding with my hat off to Belloc is that he should be able to turn from the survey of the good ales of his beloved Sussex to the very "small beer" of "Nothing." Marvelous!

But, "What's this?" say you. I began to write, or at least I headed this scribble "On Sponge Bags."

What has "Nothing" to do with sponge bags. Why, nothing of course. Frankly, I've been looking for an hour for an idea on sponge bags. It can't be done. There are no ideas in sponge-bags. They usually contain what, through the carelessness of the average user, is a clammy sponge. And that's not positively inspiring, is it?

But if my digression has served to lead to a reminder of sponge-bags, well and good. They are a very necessary part of a person's hygienic equipment, and you should have the best in stock.

I need only say in conclusion that those supplied by the House of Maw will reflect credit on your judgment if you stock and sell them.

*Discuss*

Maw's

## Guaranteed Enemas

(BRITISH MADE)

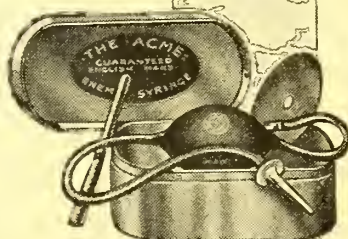
### The "Durbar."

THE Enema of outstanding merit is the Durbar. You can recommend it to your customers with every confidence because it is in every way superior to foreign-made articles at a similar price. Every Durbar is of medium weight, black finished, and fitted with bone rectal pipe, elastic gum vaginal pipe and shield, complete in strong card box as illustration.



### The "Acme."

A full-sized superior black finished Enema with extra stout tube and bulb. Fitted complete with bone rectal pipe and elastic gum vaginal pipe and shield. Packed in oval leatherette covered box with lift-off dome top.



### The "Parex"

REGD.

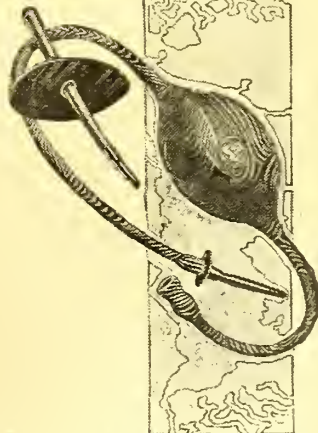
A superior Enema at a reasonable price, and one to recommend is the "Parex." Of velvet finish in a grey oval top dome box, complete with bone rectal pipe, elastic gum vaginal pipe and shield.

### The "Arabesque."

A first-class Enema of reliable quality and finish, moulded in one piece. Made in two sizes as follows:—

*No. 11 Super.* Full size and weight, fitted with bone rectal pipe, elastic gum vaginal pipe and shield. Packed complete in oval leatherette covered box with hinged lid.

*No. 11 Ordinary.* Slightly smaller size and weight but of same quality throughout. Complete as above and packed in strong oval card box with lift-off lid.



PRICES UPON APPLICATION.

TELEPHONE: CITY 7 (PRIVATE BRANCH EXCHANGE).

TELEGRAMS: "ELEVEN. CENT. LONDON."

"Maw's"—The House of the Moment.

SCIENTIA

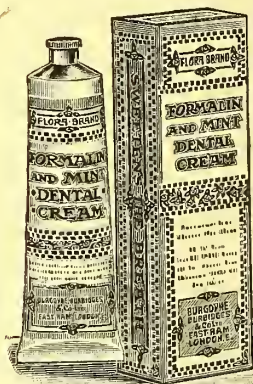


DILIGENTIA

# BURGOYNE'S TOILET PREPARATIONS (FLORA SERIES).

ARTISTIC.  
ATTRACTIVE.  
EFFECTIVE.

IDEAL for  
WINDOW  
DISPLAY.



WRITE FOR PRICES.

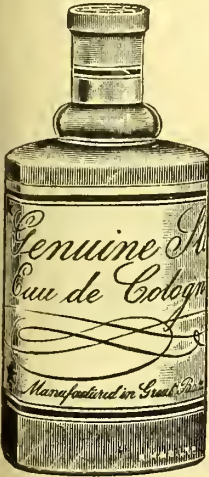
**Burgoyne, Burbidges & Co., Limited.**  
EAST HAM - - - LONDON, E.

Telegrams: "ZOTALENE, PHONE, LONDON."  
Telephone: EAST HAM 686 (Four Lines).



HOVENDEN'S Popular TOILET PREPARATIONS

THREE STAR.



No. 1497.  
19/- 36/- & 66/- Doz.

FLORAL HAIR CREAM.

Fixes and Imparts Brilliancy to the Hair and is Non-Greasy.

WHITE OR VIOLET.

A  
Preparation  
now in  
Great Demand

No. 4620.  
12/6 per doz.

An Extra Bottle as  
every dozen of the



and  
Rising  
in  
Popularity.

No. 4619.  
7/6 per doz.

Bonus given with  
No. 4620 size.

FOUR STAR.



No. 4707.  
62/- & 98/- Doz.

POUDRE COMPACTE  
PARISIENNE.



MME. STE. CROIX'S  
POWDER BOOKS.

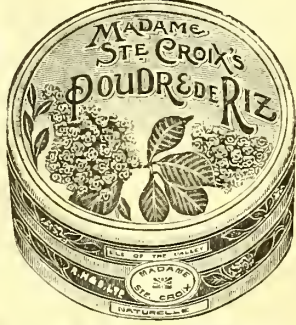
SHADES: Rose,  
Naturelle, Rachel,  
Blanche.

40/- Gross;  
3/6 Doz.

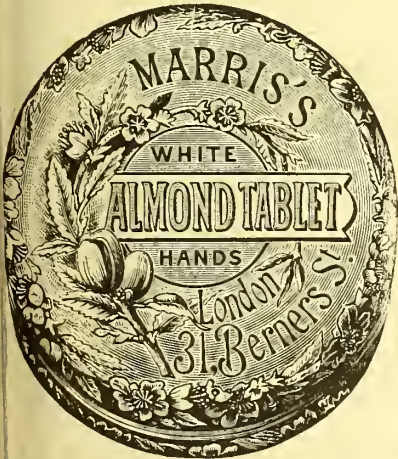
SHADES: Blanche, Rachel,  
Naturelle, Rose, Brunette.  
108/- Gross; 9/6 Doz.



MME. STE. CROIX'S  
POUDRE DE RIZ.



SHADES: Rose, Naturelle, Rachel,  
Blanche, Assorted Perfumes.  
80/- Gross; 7/- Doz.



MARRIS'S ALMOND TABLETS.

In use over 30 Years.

Invaluable for Chapped Hands and Lips. Will improve the  
appearance of the Hands, however neglected they may have been.  
Each Tablet is put up in an Artistic Enamelled Box, as  
illustration. We shall be pleased to supply Showcards.

-/9 box, 5/6 per dozen; 1/3 box, 9/9.

Subject to 2 1/2% Cash Discount: A copy of our Monthly  
Illustrated List will be sent on application.

R. HOVENDEN & SONS, Ltd.

29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., LONDON, W.1.  
Tel. No.: Museum 2810 (3 lines).

And 89, 91, 93 & 95 CITY RD., FINSBURY, LONDON, E.C.1.  
Tel. No.: Clerkenwell 1260 (2 lines).

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

## We do not Profiteer at the Expense of the Retailer.

Push "PERMOL" and  
make a profit of  $33\frac{1}{3}\%$   
plus a bonus of 1 doz.  
tubes per gross.

10/- per dozen post free  
Packed in dainty cartons  
specially arranged for  
Counter Show.

Guaranteed  
Absolutely  
Pure.

**PERMOL**  
DENTAL CRÈME

Antiseptic  
and  
Cleansing.

The Dainty Dentifrice that  
will pile up your profits.

FOR  PURITY

Registered Trade Mark.

On the P.A.T.A.

Send us a postcard and we will  
execute your orders in strict  
rotation.

*Special Terms to Wholesalers*

**PERMOL PRODUCTS Co., Ltd.**

73 HIGH STREET,  
LEWISHAM, S.E.13.

SALES  
ALWAYS INCREASING.

**INDIAN PERFUME BRICK**

KEEPS AWAY MOTH.  
LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.  
On the P.A.T.A. Retail Price 6d.

WANDA TOILET PUMMICE.  
WANDA NAIL POLISH.  
WANDA ONE-DROP PERFUME.

Of the Makers:  
**WILLIS, LOW & DRUIFF, LTD.,**  
33 Percy St., London, W.1.  
AND ALL WHOLESALERS.

ECONOMICAL  
PARCELLING



*By gum it sticks!!*

**"IRIS" GUMMED TAPE**

Write for Samples & Prices.

**R. A. STEPHENSON, LTD.**

130 Queen Victoria Street, London, E.C.4



AYRTON'S WEEKLY

PAGE 15

# Why Ayrton's Cremors?

They contain the B.P. proportion of Active Ingredients, and can be offered to the public as "Improved" Ointments, or used in all preparations of a proprietary nature.

The demand for Ayrton's Cremors is increasing daily, and their unvarying standard of quality has firmly established them in all quarters of the globe.

		CURRENT PRICES ARE—						
		1	4	7 or 14	28	56	112 lbs.	
Cremor	Acid Boric ...	2/5	2/5	2/4	2/4	2/3	2/1	per lb.
"	Antisepticum ...	2/5	2/5	2/4	2/3	2/2	2/1	"
"	Gallæ ...	3/2	3/1	3/-	—	—	—	"
"	" c. Opii ...	6/6	6/4	6/3	—	—	—	"
"	Hydrarg Ammon. ...	2/11	2/11	2/10	2/9	2/7	—	"
"	" Fort. B.P. 1914 ...	5/3	5/3	5/1	5/-	4/11	—	"
"	Hydrarg Mitius ...	4/1	4/1	4/-	3/11	3/10	—	"
"	Iodi ...	4/9	4/8	4/7	—	—	—	"
"	Iodoformi ...	5/4	5/3	5/2	—	—	—	"
"	Lanolin ...	2/4	2/4	2/3	2/2	2/1	2/-	"
(A base for Ointments replacing Adeps Lanæ)								
"	Rusci Co. ...	3/4	3/3	3/2	—	—	—	"
"	Sulphuris ...	2/3	2/3	2/2	2/1	2/-	1/11	"
"	Zinci ...	2/3	2/3	2/2	2/1	2/-	1/11	"

If you are not already using Ayrton's Cremors, a personal test will convince you of their merits. May we send you a free sample?

AYRTON, SAUNDERS & Co. L<sup>TD</sup>

Manufacturing Chemists

34 Hanover Street, LIVERPOOL



# CHLOROPHYLL

---

*Finest Quality, Prompt Shipment  
now again available.*

---

For Prices and Samples please write to

**HIEGENTLICH & ROSE**

122 Rokin, AMSTERDAM, Holland.

Telegraphic Address - "HIEROS AMSTERDAM."

**N. V. Chemische Fabriek "Naarden"**

**Bussum, Holland.**

MANUFACTURERS OF AROMATIC CHEMICALS,  
FLOWER OILS & TERPENELESS ESSENTIAL OILS.

HELIOTROPINE  
AUBEPINE  
NARCISSUS  
EUGENOL  
DIPHENYLOXIDE

---

*Please apply to our Sole Agents for Quotations and Samples—*

**GERALD BROMAGE & CO., 9-10 Foster Lane, E.C. 2.**

Telephone: City 4719.

Telegrams: "Gerbromco, Cent, London."





## SWEET PEA DISTOL

A typical perfume of the English countryside, supplied in concentrated form, and requiring merely the addition of S.V.R. and Aqua Dest., without filtering, tinting, blending, distilling or any other time-absorbing processes.

An ounce of "Distol" Sweet Pea makes eighty ounces of choice perfumery at a total cost of 21/- per pint (less than 1/1 per oz.)

Samples of this and any five other "Distol" perfumes will be sent free to any Pharmacist on request.

THOMAS KERFOOT & CO. LTD.  
BARDSLEY VALE, LANCASHIRE,  
& Bardsley House, London, N.1  
ESTABLISHED 1767.

COPYRIGHT

## TERPENELESS OILS

### BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS :

Anise (Anethol)

Bay

Bergamot

Caraway

Cassia

Cinnamon

Clove

Dill

Geranium

Ginger

Juniperberry

Lavender

Lemon

Limes

Mandarin

Nutmeg

Orange

Peppermint

Petitgrain

Rosemary

CINNAMIC

ALDEHYDE

GERANIOL

CITRAL

EUCALYPTOL

— SICILIAN —  
LEMON - BERGAMOT  
ORANGE - MANDARINE.

— SPINELLI —

The Oils that have a Long  
Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

## HOLLANDS DISTILLERY LTD.

Lavington Street, Southwark, LONDON, S.E.1.

A B C Code, 5th Edition.  
Western Union.

Telegrams: "LANDSLOH LONDON."  
Telephone: Hop 898.

AMERICAN AGENTS—O. A. BROWN CO. INC., 99-101 Beekman Street, NEW YORK.  
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, TORONTO.

## ROURE BERTRAND FILS, GRASSE. Established 1820.

LAVENDER (French), SPIKE LAVENDER (French and Spanish)

NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American),

VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

## JUSTIN DUPONT, Argenteuil (S. & O.), France

### Makers of SYNTHETIC PERFUMES

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:

STEPHENS BROTHERS & CO., 2, 5 & 6 Bury Court, St. Mary Axe, London, E.C.3.

Wholesale Houses only supplied.

FACE CREAM. TOOTH POWDER. NAIL POLISH  
" POWDER. " PASTE. HAIR CREAM  
BRILLIANTINE, Solid and Liquid. PERFUMES  
VIOLET POWDER. TALCUM. TOILET OATMEAL.  
SHAMPOO POWDER & LIQUID. MASSAGE CREAM

Your own formula prepared, or we can supply ingredients if desired.

Send for samples and quotations.

A. CONNELL & CO., 3 Jewry Street, LONDON, E.C.3.

PHONE—AVENUE 1945.





GET YOUR SHARE OF THE LARGE  
SALES NOW BEING MADE OF

# THE EMPIRE HENNA SHAMPOOS



They are well packed in smart envelopes and boxes, delightfully perfumed, and repeat sales are sure. Made from a Potash Soap base, so the hair is left soft and wavy.

Retail at **3d.** each.

Loose in display  
outers,

**17/-** gross.

In boxes of 7,

**12/9** per doz.

*3 gross printed with  
customer's name.*

A postcard will bring a  
**Free Sample.**

Showcard in an artistic colour scheme of rich auburn, black and brown, with all orders.

## THE EMPIRE PERFUMERY CO.

(Cuxson, Gerrard & Co. Ltd., Proprietors)

**OLDBURY, ENG.**



**EXPORT and COLONIAL Inquiries Invited.**



# PENNYROYAL

SPIKE LAVENDER

ROSEMARY

## CAMPHOR

JUNIPERWOOD

JUNIPERBERRY

RED THYME

WHITE THYME

## EUCALYPTOL

## CRYSTALLIZABLE

LAVENDER FLOWERS

CHAMOMILE FLOWERS

STRAMONIUM  
LEAVES

## THYMOL

  
CRYSTALS.
QUINCE  
SEEDS

## LONABARC TRADING COMPANY, Ltd.

5 FINSBURY SQUARE, LONDON, E.C. 2.

Phone: CLERKENWELL 2096.

Grams: "LONABARC, FINSQUARE, LONDON."

## AMERICAN ESSENTIAL OILS

"MOHAWK" BRAND

## OIL PEPPERMINT (Natural)

OIL CEDARWOOD  
OIL CEDARLEAFOIL HEMLOCK  
OIL BIRCH

Hellotropine Crystals C.P.

Vanillin C.P.

Coumarin C.P.

Oil Wormseed, American.

Oil Wintergreen Leaf,  
U.S.P.
**MAGNUS, MABEE & REYNARD, Inc.**
*Essential Oils, Chemicals and Drugs,*  
**NEW YORK - - U.S.A.**

Cables—"MAGLAUR."

## A. W. SCHWARZ HEIRS

FACTORY OF

## Synthetic Perfumes

ALTSTETTEN—ZURICH.

 Loritol (Muguet), Ionone (Violette), Geraniol,  
 Citronellol, Rhodinol, Chirassol, Phenylethyl,  
 Alcool, etc.

### Specialities for fine perfumery

 Ambre Concrete, Biancol, Birosine, Bou-  
 vardine, Capucine, Chene Royal, Heliotrope,  
 Jacinthe, Idealone, Neroly, Raldehyde, Roseine,  
 Sweet Pea, Narisse, Orchidee, etc., etc.

### Specialities for Soap Manufacturers

 Acaciol, Cassia N. Cyclaman, Geranium-  
 Roseine, Giroflee, Lilac, Muguet, Patchouly,  
 Violet, Reseda, Peau d'Espagne, etc., etc.  
 ASK FOR SAMPLES.

Sole Agents for the British Empire:

**G. E. KAYE, LTD.,**

65 Fenchurch St., London, E.C. 3.

Telegrams: "Thesaurus-Fen, London." Phone: Central 1708



# R. LANE-HALL & CO., LTD.

JUNIPERBERRY OIL.

RHODINOL.

HELIOTROPINE.

GERANIOL.

ALPHA VIOLET.

VIOLET 100 %.

NIGROSINE CRYST.

Removing from

4 LLOYD'S AVENUE,

E.C.3

To No. 1 STEWARD ST.,

(JUNE 15th).

E.1.

## "ARETHUSA"

Brand

### ESSENTIAL OILS

LEMON, ORANGE (Sweet & Bitter)

BERGAMOT :: MANDARIN

Guaranteed absolutely pure

Brand that covers only Finest  
Quality Oils.

Manufactured by the old-established house of  
FRATELLI JUNG (Est. 1867) Palermo,  
Messina, Catania.

ASK YOUR USUAL SUPPLIERS

to deliver you "Arethusa" Essential Oils,  
or apply to the London Agents :

Gerald McDonald & Co.,

20 TOLPH LANE - E.C.3.

Telegrams : "Spicebush, Bilgate, London."

Telephone : Avenue 206 (3 lines, 7 extensions).



## NEROLI BIGARADE NEROLI "D'ITALIA"

Pure Sicilian Essential Oils  
Terpeneless Essential Oils

The Best on the Market

EXPORTATION THROUGHOUT THE WORLD

Export Agent :

GIUSEPPE MACAJONE, MILAN

Via Canova 25

(Italy)

# Odclon

Telegrams :  
"Odclon, Edge, London."  
Telephone :  
Paddington 3333.

## is GENUINE EAU DE COLOGNE

Distilled in London from

### ORIGINAL FORMULA

of

*Johann Maria Farina*  
BORN 1685

Acquired by a BRITISH OFFICER whilst serving in Cologne.

Guaranteed "DOUBLE" Eau de Cologne and up to pre-war standard.

*If our Representative has not  
yet called on you, apply direct.*

AGENTS WANTED.

**Odclon, Ltd.**

(A Syndicate of ex-Officers).

43 Edgware Road,  
London - - W.2.

British Proprietors of Johann Maria F. Farina, St. Joseph, 1648, Original

## "Sold Out in Three Days"

*This is the remark on a postcard from a Midland Chemist re-ordering.*

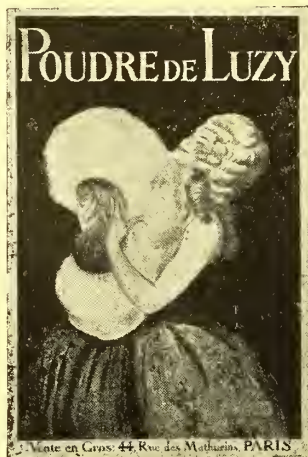
### POWDER

10d. - 6/8 1/9 - 14/-  
3/3 - 26/-

# DE LUZY

### CREME

1/3 - 10/- 2/6 - 20/-  
3/9 - 30/-



although only on the market 3 months, many Chemists have already sent their second, third, and even fourth orders. Only remarkable quality and value have caused this wonderful success.

### Don't miss an order.

Send a postcard ordering a trial supply. We pay carriage on any opening order. For the convenience of Chemists needing small quantities

*Stock is held by*

**May, Roberts, Sangers,  
Butler & Crispe.**



**W. H. CALNAN & CO., 30-32 LUDGATE HILL, LONDON, E.C.**





## “ERASMIC” ADVERTISING

**T**HE attractive “Erasmic” advertisements have been published regularly in the best illustrated weekly and monthly papers for years.

The artistic advertisements have been specially drawn and painted for us by some of the most eminent English Artists, such as The Hon. John Collier, Claude A. Shepperson, A.R.A., Lewis Baumer, Fred Pegram, G. D. Armour, Wilmot Lunt, Will Owen, H. M. Bateman, Rilette, Septimus E. Scott, René Bull, Gladys Peto, Mabel Lucie Attwell, etc.

The public appreciation is evident from the number of applications we receive from all parts of the country asking for copies, as the writers wish to have them framed.

“Erasmic” Soaps and Perfumes are associated with refinement and good taste and are universally known as “British and Best.”

“Erasmic” Soaps and Perfumes are restless stock—always in demand.

*A Window Display of Erasmic Goods,  
utilising for the purpose copies of our  
latest interesting advertisements (which  
will be sent free on application), always  
attracts attention.*

“ERASMIC,” Perfumers, WARRINGTON.

# ARGUMENT No. 3

*Pears*  
GOLDEN  
SERIES

*The Regalia of the Toilet*

EVERY article on your shelves must take its share of the rent and expenses of your shop. The sooner everything is sold, the less are your profits eaten up by overhead charges. The constant demand for Pears' productions ensures you a quick turnover at a fair rate of profit.

*That's the Secret  
of LIVE Trade*

A. & F. Pears, Ltd..

71-75, New Oxford St.,

London, W.C. 1.



The Dye with a Reputation for reliability.

## ROYAL COURT HAIR DYE

SEVEN SHADES.

1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.

The only dye giving a natural gloss to the hair.

From all wholesalers or direct

J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London E. 8.

## NAIL

FILES,  
SCISSORS,  
CLIPPERS,  
INSTRUMENTS.

—TWEEZERS & FORCEPS.—

Special quotations to large buyers.

HENRY W. SCURR, HENRY RD., SLOUGH

PUFFS of ALL KINDS in DOWN and WOOL.

## SOLID FACE POWDERS COMPLETE WITH PUFFS.

Inquires invited by makers.

F. SCHUTZE & CO., Ltd.,  
BLACK BULL WORKS,  
Caledonian Market, London, N.7.



## PERFUMERS ! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoos, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices, stating requirements.

MARTIN & CO., 71 City Road, Finsbury, London, E. 1.

WE ARE ACTUAL MANUFACTURERS OF

# POWDER PUFFS

Send for Price List of our Special Lines of Wool Pads and Mignonnette

WHOLESALE AND EXPORT ONLY.

BRUSSELS.

**THEO. VAN DER HEYDEN,**

118-122 HOLBORN, E.C. 1. Tel.: Holborn 1873.

PARIS:

17 Rue de la Grande  
Batelière.



# "RIVERA"

(VICTORY BOUQUET)

TOILET SOAP

*AS PURE AS THE LILY, AS  
FRAGRANT AS THE ROSE.*

---

**RETAIL PRICE**

PER **7d.** TABLET.

---

**EVERYBODY IS ASKING FOR IT.  
ARE YOU ABLE TO SUPPLY?**

*If not, send us your  
order to-day.*

---

**WHOLESALE PRICE**

**60/-** per gross

Packed in 12-tab. boxes.

---

*A Cream Soap with perfume  
rich and rare ;  
It makes the fairest maiden  
yet more fair.*



# Enolin

**TOOTH PASTE** "Strong" or "Mild"

**THE SUPER PASTE**

*"Enolin" is also supplied in Powder Form - 6d. & 1s. Tins*

Selling Agents for Provinces, Ireland and  
Export—

**Messrs. PATTINSON & MACKIE, LTD.**

Albion House, 59 New Oxford Street,  
London, W.C. 1.

Sole Manufacturers and Proprietors—

**A. & E. CARRERAS, LTD., Perfumers,**

207 King Street, Hammersmith,  
London, W. 6.

The Perfect Paste with the Pleasant Flavour.

# Anglodol

## Dental Paste

A Perfect Dentifrice.  
Pleasant to the taste.  
Profitable to the Retailer.

Retail Price, 7½d. and 1/3.

*Window display terms on application.*

**ANGLODOL, LTD., BERKHAMSTED.**

Telephone: BERKHAMSTED 138.

Cables and Telegrams: "ANGLODOL BERKHAMSTED."



# Think it over!

## THESE ARE JUST THE LINES YOU WANT.

"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.



### "LEONA" DENTAL CREAM

(Mint or Thymol)

Small Size	...	Cost 4/6 per dozen	Sell @ 7½d.
Large Size	...	" 8/- " "	" @ 1/3

*Recommended by the Institute of Hygiene.*

### "LEONA" CREME DE BEAUTE

Cost 12/- per dozen      Sell @ 1/6

A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

### "LEONA" BRILLIANTINE (SOLIDIFIED)

Cost 8/6 per dozen      Sell @ 1/-

Packed in beautifully embossed tins and cartons.

### POUDRE "LEONA"

Cost 8/- per dozen      Sell @ 1/-

Richly perfumed and packed in gold-blocked boxes.

*Every Line is a work of art.*

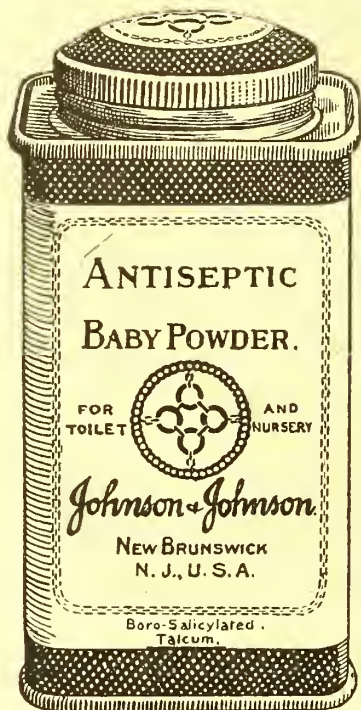
Ask your wholesaler to show them to you, and

## YOU WON'T REGRET IT

Sole Manufacturers and Proprietors—

THE JACKSON CO., 172 St. JOHN STREET, LONDON. E.C. 1.

**SOLD THE  
WORLD OVER.**



## Antiseptic TOILET & BABY POWDER

**JOHNSON & JOHNSON**  
*British - Manufacture.*

Made from the Best Talcums  
and Delicately Perfumed.

Bonus given for order of 2 gross  
and window display.

*For particulars apply to—*

**JOHN TIMPSON & Co., Ltd.**  
104 Golden Lane - - E.C. 1.

## MOUSLEY'S "BEAVERPUFF"

Patent Nos. 4931 and 4932.

*The Ladies' Natty Friend.*

B. quality  
Brown  
Fur,  
3/11  
each,  
Retail.



G. quality  
Grey  
4/6  
each  
Retail

Additional Powder Bags, 6d. each, Retail

**Revolution in Powder Puff Manufacture**  
**Thousands** already sold.

**Now** stocked by leading Wholesale Houses  
Usual Trade Discounts.

*Patentee and Sole Manufacturer:*

**F. A. MOUSLEY,**  
Priest Bridge, Mortlake, London, S.W.1

## Veldt Cream

LABEL-TITLE. COPYRIGHT

**pre-war quality**

is the best application  
for sunburn, freckles,  
heat bumps and insect  
bites, as well as being  
the de luxe hand-and-  
arm whitener breathing  
violets.

*Manufactured only at*

**The**

**"Veldt" Laboratory,**  
LOUTH, ENGLAND.



# A. BOURJOIS & Cie, Ltd.

66 CARTER LANE - LONDON, E.C. 4.

Please note that the prices of

## Poudre de Riz de Java (Bourjois)

are as under :

2/- size. No. 45	1/3 size. No. 495
1 doz. - 16/- per doz.	1 doz. - 11/- per doz.
6 „ - 15/9 „	6 „ - 10/9 „
12 „ - 15/6 „	12 „ - 10/6 „

The P.A.T.A. prices for Java Powder have been increased to  
May 1, 1920. 2/- and 1/3 per box.




### Linaris

BATH POWDERS  
FACE POWDERS (*all tints*)  
SKIN FOOD  
BEAUTY CREAM  
TONIC CREAM  
VANISHING CREAM  
BATH SALTS, etc. etc.

*Linaris*  
Dept. 1  
W.2.

31 Westbourne Grove




## A. H. RIISE'S

ST. THOMAS NEW YORK COPENHAGEN

### BAY RUM

The genuine West Indian Bay Rum. The most delicate tonic for the hair, the skin, the bath.

Prompt delivery from the free harbour at Copenhagen, Denmark.

In casks of about 180 litres.

Apply to—  
**AUGUST FABER & CO.**  
60 Mark Lane, London, E.C.3.  
or  
**A. H. RIISE**  
6 Engtoftevej, Copenhagen.

# Why Euthymol Tooth Paste?

Sales of Euthymol Tooth Paste have increased enormously during the last few years, and possibly the pharmacist, occupied in securing his individual share of this satisfactory business, does not stop to realise what this increase means.

One reason is that many men first came to know and appreciate Euthymol Tooth Paste whilst on active service. But if they had not realised its outstanding merit they would not continue to use it to-day, and it is just the same with other customers. And it is the frequent repeat orders that pay.

The sale of Euthymol Tooth Paste is thus doubly satisfactory.

## Its merit

- (1) enables it to be recommended with confidence, and
- (2) practically assures a continuance of repeat orders.

*Are you getting your share of this business? Please write to us; perhaps we can help you to increase your turnover.*

**PARKE, DAVIS & CO.**

50-54, Beak Street, LONDON, W.1.

Laboratories : : Hounslow, Middlesex.



**G**IVE it a good show and it sells itself. There is nothing just like it. The excellence of the product and the practicability of the box make customers for you.

*Shows you 33 $\frac{1}{3}$  % on selling price.*

# POUDRE NILDÉ

*in the Sifter Box.*

Appeals irresistibly to every woman. The quickest selling line of face powder ever shown.

## MINIMUM SELLING PRICES:

### POUDRE NILDÉ

*in the Sifter Box.*

Handbag size	-	-	1/-
Medium size	-	-	2/-
Large size	-	-	3/6
Leather or fancy silk vanity cases, with mirror, small size	-	-	5/-
Large size	-	-	10/-

*Shades:*

*Blanche, Rachel, Naturelle, Rosée, Basanée.*

### ROUGE INVISIBLE NILDÉ

*in the Sifter Box.*

Small size	-	-	-	-	1/6
In leather case	-	-	-	-	5/6

*Tints:*

*Brune & Blonde*

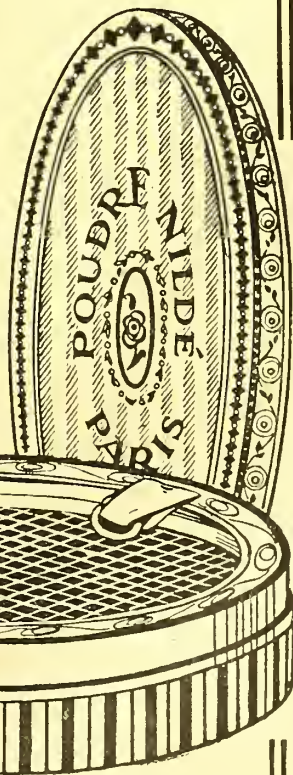
THROUGH YOUR  
WHOLESALE  
HOUSE.

**EACH  
BOX  
CONTAINS  
A PUFF**

## NILDÉ, Paris

*British and Colonial Agents:*

8 BLENHEIM ST., LONDON, W.1





The  
**HENNA  
CULT**

of Hair Beauty, based  
on the famous

**EVAN - WILLIAMS**  
ORIGINAL

**HENNA SHAMPOO**

daily extends its boun-  
daries, and is now a  
subject for popular  
journalism.

*It pays to sell this famous line.*

You will find full details of terms and  
prices in the current issue of "THE  
SHAMPOO SALESMAN," a copy of  
which is gladly sent on request.

Be sure to order

**THE EVAN WILLIAMS ORIGINAL**  
**Henna Shampoo**

Wholesale only:

**THE EVAN-WILLIAMS CO., LTD.**  
18 Ogle Street - LONDON, W.1.

BE SURE AND ADD

# La-Rola

## Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the  
"Daily Mail," "Mirror," "Sketch," etc.

**Do not lose the business  
through being out of stock.**

It is the most natural tint on the market,  
and is selling well wherever introduced.

**Lait La-Rola & Glycerine & Cucumber**  
supplied as usual,

All these articles are protected at FACE VALUE.  
Write for Display Terms and save 10%.

**M. BEETHAM & SON, Cheltenham.**



No. 2.

ANZORA CREAM for  
greasy scalps and  
ANZORA VIOLA for  
dry scalps, of all  
wholesalers.

**DISPLAY  
SHOWCARDS**  
and increase  
your sales.

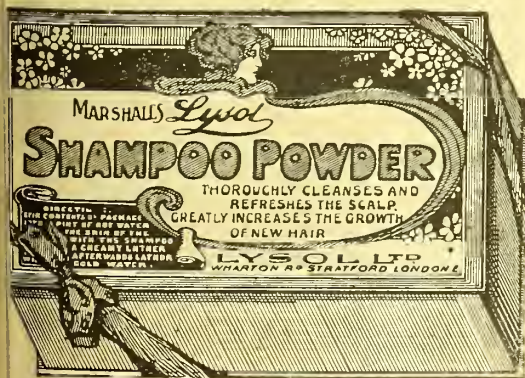
We will forward you  
the showcard illus-  
trated if you will  
write to us stating  
the number you  
require. Besides  
selling quickly and  
easily Anzora gives  
you a good margin of  
profit. Do not stock  
substitutes. Trade  
terms on request.

**ANZORA**

**Masters the Hair.**

Anzora Perfumery Co., Ltd., Willesden Lane, London.  
N.W. 6.





# LYSOLINE HAIR TONIC

will not belie your recommendation for making hair wavy and bright, removing dandruff and cleansing the scalp.

In 2 sizes, 1/- and 2/3 per bottle

and is well advertised. You can try it yourself free if you send us a postcard, and you can buy on window show terms to give you **100 % profit.**

Customers for LYSOLINE are also buyers of

## Marshall's Lysol Shampoos

retailing at **3d. each**, loose. You can buy on same terms as above.

Let us send you a £2 parcel paid to your door as a trial.

LYSOL LIMITED  
STRATFORD, LONDON, E.

# VASELINE

(Trade Mark)

We are now in a position to execute all orders for—

## "VASELINE"

„ Analgic

„ Borated

„ Petroleum Jelly  
Camphorated

„ Petroleum Jelly  
Capsicum

„ Petroleum Jelly  
Carbolated

„ Petroleum Jelly  
Eucalyptol

„ Petroleum Jelly  
Mentholated

„ Petroleum Jelly  
Oxide of Zinc

„ Ointment

„ Hair Tonic

„ Camphor Ice

„ Cold Cream

**CHESEBROUGH  
MANUFACTURING  
CO. CONS'D.**

42 HOLBORN VIADUCT,  
LONDON, E.C. 1.

## "Jackel's Cream"

(without Grease)  
for THE HAIR

Sold everywhere

Established 1883.



CRYSTALLISED  
1/9 CREAM 2/3

Trade Mark attached to each bottle.

"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

Jackel et Cie (of Paris)  
Ltd.

Sauchiehall Street  
GLASGOW

All High-Class Chemists  
should stock

# DENTIFRICE LACOSTE

the well-known Liquid Tooth  
Cleanser for checking pyorrhœa.

Retail 3/- and 5/- per bottle.

Also the unrivalled

**SAVON DENTAIRE LACOSTE**  
for cleaning Artificial Teeth  
Plates.

Retail 2/6 per pot.

Liberal Discount to the Trade.  
ATTRACTIVE SHOWCARDS SUPPLIED.

Wholesale and Export:

**LACOSTE et CIE,**  
123a Borough High Street, London, S.E.1.  
Telephone : Hop 1789.



# DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

## Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
<b>PILENTA SOAP</b> -	10/-	1/-
A complexion soap.		
<b>PROLACTUM</b> -	10/-	1/-
For the lips.		
<b>PARSIDIUM JELLY</b>	10/-	1/-
For wrinkles.		
<b>ALLACITE of ORANGE</b>	22/6	2/6
A dressing cream. <b>BLOSSOM</b>		
<b>BORANIUM</b> -	22/6	2/6
A hair tonic.		
<b>CLEMINITE</b> -	22/6	2/6
For a face lotion.		
<b>COLLIANDUM</b> -	22/6	2/6
For a face tint		
<b>PERGOL</b> -	22/6	2/6
A deodorant.		
<b>STALLAX</b> -	22/6	2/6
For a shampoo.		
<b>JETTALINE</b> -	31/6	3/6
For clearing the skin.		
<b>PHEMINOL</b> -	36/-	4/-
A depilatory.		
<b>MENNALINE</b> -	36/-	4/-
For the eyelashes.		
<b>MERCOLIZED WAX</b>	31/6	3/6
A face cream.		
<b>STYMOL</b> -	36/-	4/-
For oily complexions and blackheads.		
<b>BARSYDE</b> -	22/6	2/6
Dandruff eradicator.		
<b>TAMMALITE</b> -	22/6	2/6
For grey or faded hair		
<b>LIQUID PERGOL</b> -	31/6	3/6
To check excessive perspiration locally.		
<b>BICROLIUM</b> -	22/6	2/6
For whitening the hands.		
<b>HARAPOSA</b> -	22/6	2/6
Nut oil shampoo.		

STOCKED BY ALL WHOLESALE HOUSES

### COLONIAL DEPOTS AND AGENCIES.

#### AUSTRALIA:

ALL WHOLESALE, and  
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

#### SOUTH AFRICA:

LENNON & CO., Ltd. (Cape Town)  
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

#### INDIA:

KEMP & CO., Ltd. (Bombay)  
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)  
R. MACLURE (Madras)  
SMITH, STANISTREET & CO. (Calcutta)  
MEHTA BROS. (Calcutta)  
JAMNADAS BROS. (Bombay)

#### NEW ZEALAND:

SHARLAND &amp; CO., Ltd. (Auckland &amp; Wellington)

#### SOUTH AMERICA:

DEARBORN, Ltd., Calla Salta 284, Buenos Aires.



## ROBARTES, LTD.

1 DYERS' BUILDINGS

Holborn Bars, London, E.C.1.

### PROPRIETARY LINES

	Per Doz.	P.A.T.A.
<b>DECOLTENE</b> -	30/-	3/9
The Liquid Hair Remover		
<b>DINKIE</b> -	20/-	2/6
The Dainty Deodorant		
<b>DIADEM VANISHING CREAM</b>	30/-	3/9
In "snowball" Jars		
<b>DIADEM FACE POWDER</b> -	20/-	2/6
In six shades		
<b>DIADEM WAX</b> -	20/-	2/6
For the Complexion		
<b>DIADEM CREME ROUGE</b> -	20/-	2/6
For cheeks and lips		
<b>DIADEM TALCUM POWDER</b> -	10/-	1/3
<b>DIADEM EAU DE COLOGNE</b> —		
1 oz. -	14/-	1/9
2 oz. -	26/-	3/3
4 oz. -	48/-	6/-
<b>DIADEM LILY-MILK SOAP</b>	16/-	2/-
Magnum Tablets. Beautifully packed		
<b>DIADEM BATH SALT</b>		
<b>CONCENTRATES</b>	12/-	1/6
<b>DIADEM TROPICAL HAIR</b>		
Dispels flies and insects <b>LOTION</b>	36/-	4/6
<b>DIADEM "PARFUM SEC"</b> -	16/-	2/-
A powder perfume. In 20 odours		
<b>DIADEM OXYGENATED BATH</b>		
<b>SALTS</b>	20/-	2/6

### OBTAINABLE FROM

ALL LEADING WHOLESALE HOUSES.

Artistic Showcards and Counter Matter  
free on request.WRITE FOR LATEST EDITION OF  
ILLUSTRATED CATALOGUE.

### COLONIAL AGENTS:

#### AUSTRALIA.

ELLIOTT BROS., LTD., Sydney and Brisbane.

#### NEW ZEALAND.

P. HAYMAN &amp; CO., Wellington; Auckland; Dunedin.

#### SOUTH AFRICA.

ASHKANAZY, LTD., Johannesburg.

# Delphinus

## TOILET PREPARATIONS

Face Cream. Dental Cream.  
Brilliantine (Solid & Liquid).  
Pomade Hongroise, Nail Polish.  
Shampoos, etc.

Products of  
Unvarying  
Excellence

Prepared by  
*The Delphinus Mfg. Co.*  
45 Edward Street, Brighton.  
Cables & Wires: Hongroise, Brighton.

We do not incur heavy expenses  
in advertising to the public, but  
prefer to give our Clients the  
benefit of increased profits.

Sole Agents for Scotland :

Messrs. HENDRY & SMITH & Co.  
83 Renfield Street, GLASGOW.

**BE WISE!** Write us  
**TO-DAY.**

*Delphinus*

TRADE MARK.

COPY RIGHT

## CHEMISTS' LEAFLETS

Folders, Booklets and Showcards smartly  
produced, at lowest prices, by a firm  
specialising in the Drug Trade's requirements.

Send for Prices. Prompt delivery guaranteed.

**THE VIRGINIA PRINTING CO.**

Chemists' Printers, 353 Strand, W.C.2

## TARTARIC ACID

Manufactured by B.P.

LANKSHEAR, WICKSTEAD & CO., Ltd.,  
Botany Mill, WOODLEY, Eng.

All Inquiries to London Office, 557 Mansion  
House Chambers, 11 Queen Victoria Street,  
E.C.4. Telephone: City 7546.

## JAR and BOTTLE COVERS and CAPS

also **BOXES.** All sizes, in celluloid, with YOUR  
OWN ADVERTISEMENT printed in by new process.

Samples and quotations from **THE CENTUPLE MANUFACTURING CO.**  
Western Road, Merton Abbey, LONDON, S.W.19



# The Chemist's Compact Library

MONEY-MAKING AND MONEY-SAVING BOOKS.

**EVERY BOOK BY AN EXPERT.**

May be obtained at the published prices from any  
Wholesale Drug or Sundries House, or from

**"THE CHEMIST AND DRUGGIST," 42 Cannon St., London, E.C.4.**

Branch Offices :—MELBOURNE and SYDNEY, AUSTRALIA.



# "CUTEX" NAIL PREPARATIONS

NORTHAM WARREN CO., MONTREAL AND NEW YORK

YOU ARE LOSING  
BUSINESS IF YOU  
ARE NOT CARRY-  
ING A FULL STOCK

## "CUTEX"

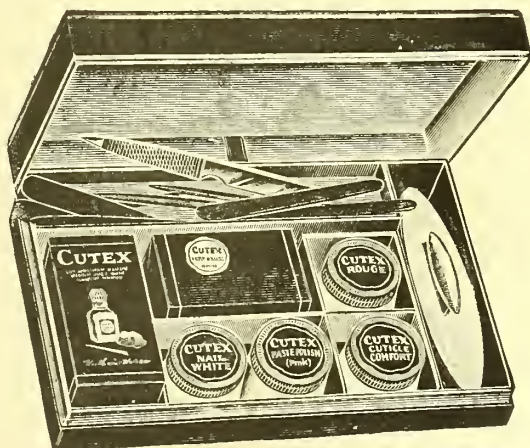
### Manicuring Preparations



No. 16 COMPACT SET



No. 17 TRAVELLING SET



No. 18 BOUDOIR SET

THESE PREPARATIONS CAN  
BE OBTAINED FROM ALL  
WHOLESALE HOUSES

SOLE AGENTS:

**HENRY C. QUELCH & CO.**  
4 & 5 LUDGATE SQUARE, LONDON, E.C. 4



# JOB BROTHERS

## GUARANTEED PURE GENUINE

## NEWFOUNDLAND NON-FREEZING

## MEDICINAL COD LIVER OIL

### IS THE FINEST OIL PRODUCED

It is perfection in colour, smell, taste and absolute purity.  
Manufactured from the finest fresh Cod Livers on same  
day as fish caught.

**WHOLESALE ONLY**

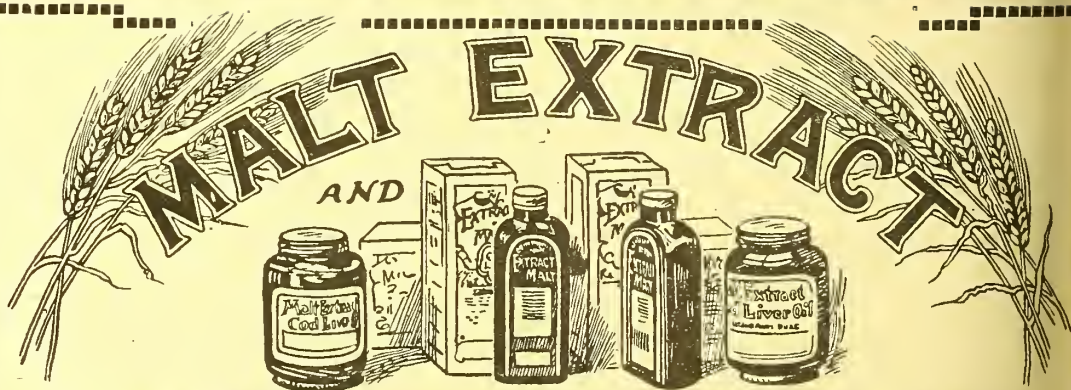
**JOB BROS., Manufacturers, Tower Building, LIVERPOOL**

Telegraphic Address: "JOB LIVERPOOL"

Tel.: 1039 CENTRAL

And of ST. JOHN'S, N.F.

Established 1780



## MALT & COD LIVER OIL

Prepared only from the Finest East-Coast Barley, combined  
with the best Norwegian Non-Freezing Cod Liver Oil.

*Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled  
and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.*

Telephones:  
Nitshill-Pollakshaws 14  
London-Avenue 5661  
(3 lines).

**PERRY & HOPE, Ltd.**

Telegrams:  
"Perryope, Nitshill,"  
"Perryope, Ltd.,  
London."

**NITSHILL, near GLASGOW.**

**London Office: 1 LEADENHALL STREET, E.C.3.**



GOLD MEDAL AT INTERNATIONAL MEDICAL  
CONGRESS, LONDON.

# Sanagen

NERVE FOOD.

Trade Mark Regd.



## SELLS ITSELF= MANY TIMES

EVERY enterprising Chemist who has tried pushing SANAGEN to the fore in his window and on his counter finds a ready sale for it—and what is more, customers come back for it again and again.

IT pays to push SANAGEN because it is a P.A.T.A. line that returns

## 50% PROFIT

on its Trade Price to the Chemist.

### Regular Advertising Helps Sales

Other Sales Aids Supplied on Request.

SEE THESE  
SIZES & PROFITS.

4-oz. size. Costs 2/-  
Sells 3/- PROFIT 1/-

8-oz. size. Costs 3/4  
Sells 5/- PROFIT 1/8

16-oz. size.  
Costs 6/4 Sells 9/6  
PROFIT 3/2

FROM ALL  
WHOLESALEERS.

## SANAGEN CO., LTD.

Sheepcote Lane,  
BATTERSEA, LONDON, S.W. 11.

Telephone : Latchmere 4363.

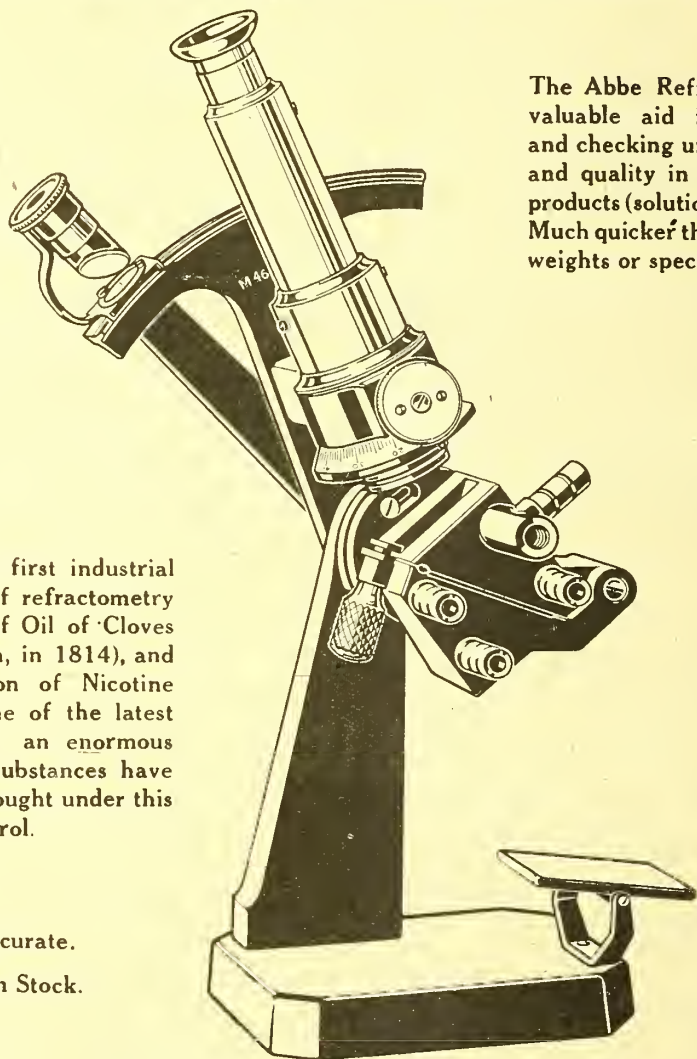
# The ABBE REFRACTOMETER

The Abbe Refractometer is a valuable aid in maintaining and checking uniform strength and quality in pharmaceutical products (solutions, syrups, etc.) Much quicker than taking dried weights or specific gravities.

Between the first industrial application of refractometry (the testing of Oil of Cloves by Wollaston, in 1814), and the estimation of Nicotine by Fryer (one of the latest applications), an enormous number of substances have now been brought under this mode of control.

Rapid and accurate.

Delivery from Stock.



*Descriptive booklet on application from the Makers—*

**ADAM HILGER, LTD**

75a, CAMDEN ROAD, LONDON, N.W.1.



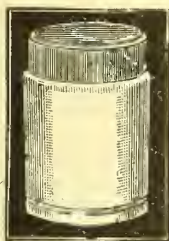
# Don't be held up for GLASSWARE

YOU may, perhaps, be buying only for immediate requirements and cannot get prompt delivery of the goods wanted. Apart from our huge Provincial stock, bear in mind we have ready for delivery at our various London depots

OVER

## 5,000 cases

of every description of  
Glassware for all purposes.



*The following are some of the lines we offer:*

- |                       |   |   |
|-----------------------|---|---|
| <b>SQUAT KALIS</b>    | - | Green, 2 oz. size.  |
| <b>KAY'S ESSENCES</b> | - | Green, 2½ oz. size.   |
| <b>KALIS</b>          | - | Green, 4 oz. size.  |
| <b>KALIS</b>          | - | Flint, 1, 2, 4, 6, 8, 10, 12, and 16 oz.  |
| <b>LIMES</b>          | - | Flint, 2, 4, 6, 10, 12, and 20 oz.  |
| <b>LIMES</b>          | - | Green, 1, and 4 oz.   |
| <b>MEDICALS</b>       | - | First and second quality, green, plain, and graduated, 4, 6, and 8 oz. Also tinted blue |
| <b>MEXICANS</b>       | - | Flint, 1½ and 2 oz. sizes.  |
| <b>PANELS</b>         | - | Green, 4 oz.  |
| <b>PANEL TOBINS</b>   | - | Green, 2½ oz.   |
| <b>PANELS</b>         | - | Flint, 1 and 2 oz. sizes.   |
| <b>VIALS</b>          | - | Green, 1 and 2 oz. sizes.   |
| <b>VIALS</b>          | - | Flint, all sizes from half-dram. Long series.   |
| <b>VIALS</b>          | - | Graduated, 1 and 2 oz. sizes.   |

*Plenty of 4-oz. MEDICALS, and many more lines too numerous to mention.*



# JULES LANG & SON.

CHARLTON WORKS,  
Charlton Place, Islington, London, N.1.

Telephones: North 2770-2 (three lines).

Telegrams: "Assorted, Phone, London."

Please mention this Paper when sending us your inquiries.

# THE ANNUAL SPECIAL ISSUE

*of*

“The Chemist and Druggist”  
for 1920

is now in course of preparation,  
and will be published on

**JUNE 26**

It will contain many features of particular interest to the trade, and it will be an especially valuable advertising medium.

Firms requiring advertising space should communicate at once with

THE PUBLISHER,  
“The Chemist and Druggist,”  
42 Cannon Street, London, E.C. 4.

Telegrams :  
“Chemicus, Cannon, London” (2 words).

Telephone :  
Central 3617 (3 lines).



# ALTERATIONS IN TRADE LIST PRICES

During MAY, 1920

The following list relates to the changes in prices which have occurred in respect to staple products or important alterations of prices of products in less frequent demand:—

NOTE.—The prices given below are current trade list prices to which 10% is to be added to arrive at the Minimum Selling Prices to the public.

Trade List Price per doz.				Trade List Price per doz.			
25's 100's				25's 100's			
'TABLOID' BRAND—				'TABLOID' BRAND—continued			
Ammonium Chloride Compound	10 0	30 0		Sodium Salicylate, gr. 5, Eff., P.P.	36 0	—	
„ Benzo-naphthol, gr. 5	—	42 0		„ Sulphur Comp.	9 0	27 0	
„ Beta-naphthol, gr. 3	—	21 0		„ Three Bromides, Eff.	36 0	—	
„ Blue Pill and Rhubarb Compound	—	30 0		'TABLOID' BRAND			
„ „ „ Colocynth and				HYPODERMIC—			
Hyoscyamus	12 0	36 0		Trade List Price per doz.			
„ „ „ Squill and Digitalis, s.c.	—	24 0		Digitalin (Cryst.), 0.0005 gm.			
„ Digitalin (Cryst.), gr. 1/250	—	96 0		tubes of 20	42 0		
„ Ginger Essence, min. 10	—	18 0		'TABLOID' BRAND			
„ Gregory Powder, gr. 5, <i>pln. or s.c.</i>	8 0	24 0		(PHOTOGRAPHIC)—			
„ Grey Powder, gr. 2	—	12 0		Trade List Price per doz.			
„ „ „ gr. 3	—	15 0		Developers, Complete...	24 0		
„ „ „ gr. 5	—	24 0		„ Developers, without Accelerator	18 0		
„ „ „ and Dover Powder,				„ Accelerators, without Developer	12 0		
aa gr. 1	—	15 0		„ Gold Toners	24 0		
„ „ „ and Opium	—	15 0		„ Copper Ferrocyanide Toning			
„ „ „ Opium and Quinine	—	60 0		Compound	16 0		
„ „ „ gr. 1/2 and Sod.				'TABLOID' BRAND			
„ „ „ Bicarb., gr. 2-1/2	—	24 0		(PHOTOGRAPHIC SUNDRIES)—			
„ „ „ gr. 1 and Sod.				Trade List Price per doz.			
Bicarb., gr. 5	3 0	24 0		Mercuric Iodide and Sodium			
„ Liqueurice Comp. Powder, gr. 30	10 0	30 0		Sulphite	16 0		
„ Lithium Carbonate, gr. 2	—	18 0		„ Potassium Metabisulphite, gr. 10	16 0		
„ „ Citrate, gr. 5, Eff.	15 0	45 0		„ Sodium Thiosulphate, Dried,			
„ „ „ gr. 60, Eff., B.P.	36 0	—		gr. 28.5	16 0		
„ „ „ and Sodium				Remaining sundries previously listed at			
Sulph. Eff.	36 0	—		9/0 per doz.	12 0		
„ Mucin Comp.	42 0	147 0		Trade List Price per doz.			
„ Podophyllin, gr. 1/4	—	15 0		4 oz. 8 oz.			
„ „ Comp., g. c.	—	45 0		'ELIXOID' BRAND—			
„ Rhubarb, gr. 3	10 0	30 0		Ammonium Valerianate	—	54 0	
„ „ and Soda, <i>pln. or s.c.</i>	12 0	36 0		„ Formates Compound	24 0	—	
„ „ Soda and Magnesia	9 0	27 0		„ Glycerophosphates	24 0	—	
„ Santonin, gr. 1/2	45 0	158 0		„ Heroin and Terpin Hydrate	36 0	—	
„ „ gr. 1	84 0	315 0		„ Mucin	54 0	—	
„ „ gr. 2	168 0	630 0		„ Pine Tar Compound	30 0	—	
„ „ gr. 3	240 0	900 0		Trade List Price per doz.			
„ „ and Calomel, aa gr. 1	90 0	338 0		'ENULE' BRAND—			
				Santonin, gr. 3	boxes of 12	144 0	
				'Panopepton' ('Fairchild')—12 oz.			
						82 0	



BURROUGHS WELLCOME & CO., LONDON

# "JASMOL"

## VANISHING CREAM.

An ideal TOILET CREAM, well got up, exquisitely perfumed, NON-GREASY or STICKY, packed in screw Glass Bottles, Aluminium Capped and nicely cartoned.

Retails at  $1/3$  Wholesale Price 10/- per doz.

LESS USUAL DISCOUNT. HANDSOME PICTORIAL SHOWCARDS SUPPLIED.

*"JASMOL" is a line that repeats many times over when once introduced.*

Sole Manufacturers,

## CUPAL Ltd., BLACKBURN

# 'Ialine Disinfectants

## Also FLUIDS

containing  
10 — 80 %  
Tar Acids.

High Co-efficient

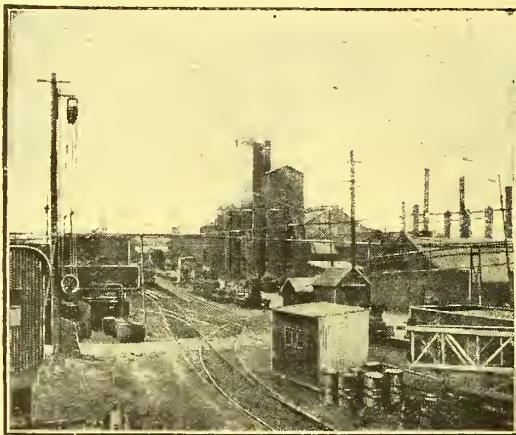
## FLUIDS

up to 18—20  
Rideal-Walker  
Method.

## LYSOL

## SHEEP DIP

Approved by the  
Board of Agriculture  
for Sheep  
Scab.



## Coal Tar and Ammonia Products

Benzols, Toluol, Solvent Naphthas, Carbolic and Cresylic Acids, Creosote and Fuel Oils, Pitch, etc. etc. Timber for Dock and Harbour work, Deals, Battens, Boards, Floorings, etc. Railway Sleepers and Crossing Timbers, Telegraph Poles, etc. etc. Saw Millers and Timber Preservers.

**Burt, Boulton & Haywood, Ltd.** Salisbury House,  
London Wall, E.C. 2

Telegrams: "Burboul, Ave, London." Cables: "Burboul London."  
Codes: A B C (5th Edit.); Lieber's; Westero Union; Bentley's.

CARBOLIC  
POWDERS  
CREOSOTE  
POWDERS  
CO-EFFICIENT  
POWDERS  
PINE OIL  
POWDERS  
PINE OIL  
FLUIDS  
PINE OIL  
BLOCKS  
NAPHTHALENE  
BALLS  
" CANDLES  
" TABLETS  
" FLAKE  
" BLOCKS  
" POWDER  
LIQUID SANI-  
TARY SOAP  
WOOD PRE-  
SERVATIVE  
ETC. ETC.





## A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in the Overseas Dominions.

**Subscription Rates.** TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9d. post free; *Diary*, 5s. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20ch., franco.

Terms for Advertising may be obtained on application to the Publisher  
**HEAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4.**  
 Telegrams: "Chemicus, Cannon, Lo. don." Telephone: Central 3617 (three lines).  
**BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.**

### CONTENTS.

No. 24. Series 2107. Vol. 92.

PAGE	PAGE
Association Affairs ..... 64	Gazette ..... 62
Bankruptcy Report ..... 64	General Medical Council 65
Business Changes ..... 50	Information Department 58
Chemical Society ..... 68	Insurance Act Dispensing 69
Chemists' Retail Price- lists ..... 62	Irish News ..... 47
Coming Events ..... 54	Legal Reports ..... 50
Corner for Students ... 63	Marriages ..... 56
Correspondence:	New Companies and Company News ..... 55
Letters ..... 74	Observations and Reflec- tions ..... 59
Legal Queries ..... 75	Personalities ..... 57
Miscellaneous Inquiries 76	Profiteering Act ..... 51
Deaths ..... 56	Retrospect ..... 76
Deed of Arrangement ... 64	Scottish News ..... 48
Editorial Articles:	Society of Public Analysts ..... 66
Medical Services Report 60	South African News ..... 49
Platinum Market ..... 61	Trade Notes ..... 58
Revall Travel ..... 62	Trade Report ..... 70
Society Subscriptions 62	Westminster Wisdom ... 67
English News ..... 45	Wills ..... 56
French News ..... 49	

## A Matter of Urgency.

### ANNUAL SPECIAL ISSUE

THE CHEMIST & DRUGGIST means a considerable tax on the resources of our office staff and our printers. It entails advance in the usual time for the receipt of advertising matter, for collecting final proofs, and for going to press. Our first post-war Special, which is to be published on

JUNE 26,

promises to create a record in artistic, literary, and business achievement so far as trade journals are concerned. The publisher, therefore, urges the few firms associated with the drug, chemical and allied trades who have not yet given definite instructions regarding the advertising space they require to do so at once. There are practically only ten days before the issue is put to press, so prompt attention to this will be appreciated.

## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

### Drug and Chemical Workers' Wages.

A meeting of the Drug and Fine Chemical Manufacturers' Association and the Amalgamated Society of Pharmacists, Drug and Chemical Workers took place on June 9 to consider the demand of the workers for an increase in wages. The union had put forward a plan for regrading the workers, but it was claimed by the Drug and Fine Chemical Manufacturers' Association that it would not be possible to get this done so that it could come into force by August 1. It was then agreed to appoint a joint committee to consider the question in detail. The rest of the sitting was taken up with a consideration of the basic wage, various propositions being put forward. Finally, a base was agreed upon which is to be recommended for acceptance by both sides.

### Brussels Health Congress.

One of the most picturesque scenes ever witnessed in Brussels, writes a correspondent, was the procession of the delegates of the Public Health Congress on May 24 to the Cathedral of St. Gudulde, where the Bishop preached a sermon in English, paying generous tribute to the services of Britain in the war. Several pharmacists were present in the procession, the members of which wore the academic or municipal robes. Among them were Mr. G. Claridge Druce, M.A., Oxford, clad in his scarlet robes of L.L.D., the High Sheriff of Dublin (Dr. J. C. McWalter), Dr. Ed. Moyennes, and Dr. J. B. Maginnis, of the Irish Apothecaries' Hall, and others. The meeting of the sections took place at the Palais des Académies, where there was also a small exhibition of pharmaceutical requisites in connection with the congress of French physicians, which was being held at the same time. Some of the better-known American and English houses showed exhibits, but the articles displayed were mostly French and Belgian surgical and medical apparatus, ampoules, etc. Some of the members of the Congress recalled the International Congress of Pharmacy which had also been held at Brussels, and which was one of the most successful of its kind. The late Professor Remington, of Philadelphia, and the late Professor Tichborne, of Dublin, were among the prominent pharmacists present on that occasion.

### Charge of Forging Prescriptions.

Ellen Dora Battiscombe (51), "Goodmayes," Lower Brimley, Teignmouth, described as an artist, was charged at Marlborough Street Police Court, London, on June 7, with uttering certain documents—to wit, prescriptions—purporting to be signed by H. Wood, H. R. Wadd, and Rolf Creasy, medical practitioners, well knowing them to have been forged with intent to defraud. Mr. Harold Pearce, who prosecuted on behalf of the Director of Public Prosecutions, said that the prisoner had in this way obtained drugs from various chemists in the West End. She seemed to be addicted to the opium habit. A detective-sergeant gave evidence of arrest, and added that in the course of a statement the accused said, "Dr. Wadd did give me a prescription for penepne, but I lost it, and I now do it from memory. I am desperately poor. I got the names of the druggists from the Free Library, Weston-super-Mare." On searching the prisoner's residence he found four chemists' bottles, two of which contained drugs, and five prescriptions—three of Dr. Wadd's, one of Dr. Creasy's, and one of Dr. R. Russell. A remand was ordered.

### Charge of False Pretences.

Arrested as a result of a notice published in THE CHEMIST AND DRUGGIST (May 22, p. 99), Alice Wilson, a nurse, was charged on remand at the Marylebone Police Court on June 5 with obtaining by false pretences three tubes of morphine tablets and six tubes of heroin tablets, value 11s., from Mr. W. A. Williams, chemist and druggist, manager to Mr. R. Thomas, Ph.C., 97 High Street,

C C

Marylebone, W. (*C. & D.*, June 5, p. 58). There was a further charge of obtaining six tubes of morphine tablets and two of heroin tablets, value 9s., from Fitch & Ibbotson, chemists, 2 Lower Seymour Street, W. No evidence was given in support of the second charge, as Wilson pleaded "Guilty" through her solicitor to both charges. Addressing the Court, the solicitor said it was a distressing case; unfortunately, although only a young lady, the accused had become a victim to the drug habit. She attributed her downfall to the fact that some time ago she developed a septic knee and was given a little morphine. Two or three years ago she was for a short time a patient at the Charlton Asylum, and under the circumstances he suggested she should be permitted to go into a home at Feltham. The magistrate agreed to the suggestion, and further remanded the case for arrangements to be completed for her reception at the home.

#### Students' Visits to Works.

The students of the Exeter School of Pharmacy visited recently the laboratories of Evans, Gadd & Co., Ltd. Demonstrations were given by Mr. C. J. Jordan of various processes and tests employed in manufacture and analysis. Tea was provided, and afterwards Mr. C. Pryce-Jones, on behalf of the students, thanked Messrs. Evans, Gadd & Co. for their hospitality. Mr. F. Southerden, B.Sc., one of the directors, replying, said that some people were rather pessimistic as to the ability of the profession to absorb the labour available; but, in his view, the outlook was much brighter.

The students of the pharmaceutical department of Manchester University, eighty in number, paid a visit recently to the manufacturing laboratories and drug-mills of James Woolley, Sons & Co., Ltd., Cheetham. The assembly of such a large company at Cheetham Town Hall created quite a local sensation. The company was received by Mr. J. H. Franklin, Ph.C., and was then divided into four parties, put under the respective guidance of Messrs. Franklin, Ridgeway, Walker, and Walsley. The milling-rooms were first visited. Belladonna had a special grinding-room to itself, the eyes of the operator being protected on account of the well-known mydriatic effect. The drying-rooms were next visited, after which came percolation, evaporation, and distillation on the large scale. Bird's recovery still and stills for the automatic production of ammonia-free distilled water were noted. The milling of ointments and the making of wholesale quantities of cod-liver oil emulsion by modern methods and machinery next claimed attention, after which came pill-making, with the accompanying pearl, sugar or gelatin coating, and tablet-making by the newest machinery. Finally, the manufacture and filling of gelatin capsules and the making of suppositories brought the tour of inspection to an end. The visit proved of great value and interest to the students, whose thanks are due to Messrs. Woolley and to their representatives for their kindness and courtesy.

#### Public Institution News.

Holywell (Flintshire) Board of Guardians, at a recent meeting, decided to invite tenders for the supply of drugs from wholesale chemists.

St. Pancras South Infirmary is to be renamed "St. Pancras Hospital," and the North Infirmary will be styled "Highgate Hospital." Lewisham and Shoreditch Infirmarys are also to be re-christened "hospitals."

According to "The Hospital," the question of wages and hours of the employés at the London Hospital is now being considered by the court of arbitration under the auspices of the Ministry of Labour. The hospital committee feel that the staff ought to be paid reasonable wages and have reasonable hours, and the opinion is expressed that a voluntary hospital should not be run on the "charity" of its employés.

The movement for co-operation between London infirmaries and the general hospitals appears to be extending. St. Pancras Guardians have agreed to a scheme, arranged with the London Women's Medical School, whereby students may visit the infirmary and gain knowledge of special types of medical and surgical cases. The students at St. Mary's Hospital are to have frequent access to

the wards at Paddington Poor-Law Infirmary, in order that they may study special cases which are not usually found in the general hospitals. Pathological investigations for the Paddington institution will be carried out at St. Mary's laboratory.

#### Birmingham.

Judging by the various packing-cases seen recently, it would appear that the local export trade has received a flip.

Increased railway rates are likely to affect adversely the trade of local industrial centres, according to evidence given lately before a Government Committee.

Much regret will be felt by pharmacists at the loss Mr. John Wakefield, Ph.C., has experienced in the death of his wife (see p. 56). Mrs. Wakefield was gifted with a charming personality, and was a strong supporter of the church to which she belonged.

Mr. Marshall Freeman, barrister-at-law and pharmacist, has agreed to act as chairman of the Greater Birmingham employment committee. His acceptance has given great satisfaction both to employers and the trade-union leaders. He recently relinquished the position of civil liabilities commissioner for Birmingham and the adjacent counties. Mr. Marshall Freeman has also been elected to the new ecclesiastical parliament which has been established.

The annual report of the Birmingham city analyst (Mr. J. F. Liverseege, F.I.C., Ph.C.) contains several references to drugs and chemicals, notably powdered liquorice-root, which was the subject of an unsuccessful prosecution (*C. & D.*, 1919, p. 271). One of thirty-four informal samples of ground ginger contained 10 per cent. of chalk. Vinegar should contain at least 4 per cent. of acetic acid; 321 samples were analysed, and twenty-three of them, from sixteen different vendors were found to be below this limit. One sample of camphorated oil contained 5 per cent. of camphor and 95 per cent. of colza oil, and the vendor was fined. One sample of camphorated-oil substitute contained only 4.4 per cent. of camphor. Two samples of boric-acid ointment were too strong, containing 11.7 per cent. and 12 per cent. respectively; and six samples were weak, containing from 5.1 per cent. to 9 per cent. Six of the twenty-one samples of white precipitate ointment were either deficient in strength or not prepared with benzoated lard, as required by the British Pharmacopœia. One sample was a boric-acid ointment, and contained no white precipitate, and yet was labelled "Poison." A white precipitate ointment substitute was about a quarter of the strength of the Pharmacopœia article, but as there was no standard it had to be passed as genuine. Two of the fifty-seven samples of Glauber's salt contained six parts of arsenic per million, which is in excess of the Pharmacopœia limit.

#### Bradford.

Public bacteriological work having increased fourfold during the past twelve months, the Health Committee have decided to appoint an additional bacteriologist.

Charged at Bradford Police Court, recently, with travelling without paying his fare, John Edward Fox, Bingley described as an assistant chemist, was given the benefit of the doubt, and the case was dismissed.

#### Liverpool.

Mr. Prebble has written home from Buffalo, where he was on his way to the Falls.

Mr. William P. Evans, who writes from Toronto, has booked his passage home by the *Empress of France*, which is to sail on June 16.

Mr. John H. Robinson contemplates making his yearly visit to London next week. He is taking a short rest at his native Windermere.

Cameras and photographic materials are finding a good sale, and developers are in considerable demand. Amateurs find pleasure in making records of building marked for demolition.

Prizes for the British Pharmaceutical Conference golf competition are being given by Mr. C. A. Hill, B.Sc., F.I.C., President of the Conference, and by Mr. William P. Evans, chairman of the local committee.



## Miscellaneous.

**FIRE.**—The premises of T. J. Smith & Nephew, Ltd., surgical-dressings manufacturers, Queen Street, Hull, were lit by fire on June 5.

**POISONING.**—A verdict of "Death by misadventure" was returned at an inquest held at Middlesbrough, on June 7, on the body of an infant, who had died after swallowing some pills said to contain potassium nitrate.

**ACCIDENT WITH AN EXPLOSIVE.**—Mr. L. K. Croft, chemist and druggist, manager of the Doncaster branch Boots, Ltd., was lately transferring a quantity of explosive chemical from one bottle to another when burst into flame, his left hand being severely burned.

**COLLECTION FOR A HOSPITAL.**—The staff of Johnson & Sons (Manufacturing Chemists), Ltd., London, E.C. 2, collected the sum of 20l. 3s. for the London Hospital on June 5. This amount was contributed in addition to the usual weekly collection for the staff's annual gift to the Hospital Saturday Fund.

**GRANT FOR BIO-CHEMISTRY.**—Following on the provision means to found a chair of bio-chemistry at Oxford & D., May 1, p. 79), has come a large endowment of the same subject at Cambridge, where a chair has existed for some years. The directors of the Commercial Union Assurance Co., acting as trustees of the estate of the late Sir William Dunn, have allotted 1,000l. for building and equipping an institute of bio-chemistry on a site provided by the University.

**WHOLESALE DRUGGISTS' CRICKET CHAMPIONSHIP.**—Burgoyne's v. The British Drug Houses, played at Crouch Hill, on June 5, resulted in a win for Burgoyne's by sixy-four runs. The scores were 117 and 53 respectively. The present position is:

	Played	Won	Lost	Points
Allen and Hanburys	2	2	0	4
May & Baker	2	2	0	4
Burgoyne, Burbidges	2	1	1	2
British Drug Houses	2	0	2	nil
Stevenson & Howell	2	0	2	nil

**STATUS OF THE IMPERIAL COLLEGE.**—At a meeting held in Westminster on June 5 a resolution was passed urging the Government to give the College power to grant degrees by acquiring the status of a university. It was pointed out that there was no other example in the world of a population like that of Greater London having only one degree-conferring body within its area. Letters in support of the object of the meeting were received from many well-known men of science, including Dr. Andrew Balfour (Wellcome Bureau of Scientific Research) and Sir Herbert Jackson.

**DEVELOPMENT OF A STRIKE.**—The strike among the clerical staff of Lever Brothers, Ltd. (C. & D., June 5, p. 3), had a development on June 8, when the National Warehouse and General Workers' Union called out in sympathy all Port Sunlight works staff. From the outset, Mrs. Lever have offered to meet joint representatives of unions if they agree, but have pointed out that they do not negotiate with the two unions representing the same class of worker on two distinct wage programmes. The effects about 8,000 men. Scenes of disorder are reported in the public Press as having taken place on June 9.

**THE COURTS.**—At Boston, on June 3, an ex-soldier charged with having wilfully smashed a glass show-in the shop doorway of Mr. Walter Bullivant, chemist druggist, West Street. He was ordered to pay 4s. —At Cambridge Police Court, recently, Minnie Cooey, married, was bound over on a charge of having attempted suicide by taking spirit of salt. —At West Ham Police Court, on June 7, two Chinamen were fined 25s. each for smuggling opium into the London docks. A total of nearly 3 lb. had been found on them. An official of the shipping line employing the men stated in evidence that his company was recently fined 5,000l. at New York in connection with a similar offence, though none of the ship's officers was aware that there was any opium on board. All their crew had been warned.

## Irish News.

## Brevities.

At Ballymena, co. Antrim, James Johnston (58), retired farmer, died from laudanum poisoning.

Mr. John O'Dolan, L.D.S., R.C.S.I., has been appointed dental surgeon to the Fermanagh War Pensions Committee.

Boyle Board of Guardians granted Mr. James Barry, Ph.C., chemist to Boyle Hospital, eight weeks' leave of absence on June 5. Mr. Barry is taking a rest by his doctor's orders.

Mr. Michael S. Kane, R.D., Clonmel, informs us that the salmon referred to in our last issue (p. 59) was caught by him with a 5-oz. split cane trout fishing-rod, an ordinary trout reel, live tapered cast, and trout fly.

## Belfast.

At Belfast County Court, on June 2, a claim was brought by Mr. David Manson, R.D., 79 Peter's Hill, to recover compensation for the breaking of a pane of plate glass on April 28 in his premises. The solicitor for the City Corporation said the parties had agreed to an award of 32l., and a decree was made accordingly.

Mr. James C. McNaught, eldest son of Mr. Andrew McNaught, Ph.C., Queen's Bridge Pharmacy, Belfast, has been appointed resident secretary in Belfast of the Scottish Amicable Society. Mr. McNaught joined the 9th Highland Light Infantry in September 1914, and got his commission in the 1st Royal Irish Regiment in September 1915. He served in France and Salonica, and afterwards acted as an intelligence officer. He was twice mentioned in despatches, and was demobilised in February 1919.

## Chemists' Golf Match.

The annual competition for the "McMullan Challenge Cup," presented by Mr. W. McMullan (C. & D., xci., p. 161), was, by permission of the Council of Donaghadee



Photo.]

[A. R. Hogg.

## CHEMISTS' GOLF COMPETITION, DONAGHADEE.

Club, played off on that course on June 2. There were thirty-four entries, divided into two classes, and the following were the best cards returned:

Class A.			
Mr. J. M. Poots	...	...	91-18=73
" A. W. Mann	...	...	92-16=76
" J. H. Haslett	...	...	93-16=77
" J. Macauley	...	...	96-17=79
" A. Leith	...	...	96-14=82
Class B.			
Mr. W. J. Rankin, jun.	...	...	99-22=77
" J. S. Balmer	...	...	100-22=78
" J. Guthrie	...	...	102-22=80
" A. M. Gamble	...	...	102-20=82

The final eighteen holes match play, between J. M. Poots and W. J. Rankin, jun., resulted in Mr. Poots winning the cup by 4 and 3.

Marylebone, W. (*C. & D.*, June 5, p. 58). There was a further charge of obtaining six tubes of morphine tablets and two of heroin tablets, value 9s., from Fitch & Ibbotson, chemists, 2 Lower Seymour Street, W. No evidence was given in support of the second charge, as Wilson pleaded "Guilty" through her solicitor to both charges. Addressing the Court, the solicitor said it was a distressing case; unfortunately, although only a young lady, the accused had become a victim to the drug habit. She attributed her downfall to the fact that some time ago she developed a septic knee and was given a little morphine. Two or three years ago she was for a short time a patient at the Charlton Asylum, and under the circumstances he suggested she should be permitted to go into a home at Feltham. The magistrate agreed to the suggestion, and further remanded the case for arrangements to be completed for her reception at the home.

#### Students' Visits to Works.

The students of the Exeter School of Pharmacy visited recently the laboratories of Evans, Gadd & Co., Ltd. Demonstrations were given by Mr. C. J. Jordan of various processes and tests employed in manufacture and analysis. Tea was provided, and afterwards Mr. C. Pryce-Jones, on behalf of the students, thanked Messrs. Evans, Gadd & Co. for their hospitality. Mr. F. Southerden, B.Sc., one of the directors, replying, said that some people were rather pessimistic as to the ability of the profession to absorb the labour available; but, in his view, the outlook was much brighter.

The students of the pharmaceutical department of Manchester University, eighty in number, paid a visit recently to the manufacturing laboratories and drug-mills of James Woolley, Sons & Co., Ltd., Cheetham. The assembly of such a large company at Cheetham Town Hall created quite a local sensation. The company was received by Mr. J. H. Franklin, Ph.C., and was then divided into four parties, put under the respective guidance of Messrs. Franklin, Ridgeway, Walker, and Walmsley. The milling-rooms were first visited. Belladonna had a special grinding-room to itself, the eyes of the operator being protected on account of the well-known mydriatic effect. The drying-rooms were next visited, after which came percolation, evaporation, and distillation on the large scale. Bird's recovery still and stills for the automatic production of ammonia-free distilled water were noted. The milling of ointments and the making of wholesale quantities of cod-liver oil emulsion by modern methods and machinery next claimed attention, after which came pill-making, with the accompanying pearl, sugar or gelatin coating, and tablet-making by the newest machinery. Finally, the manufacture and filling of gelatin capsules and the making of suppositories brought the tour of inspection to an end. The visit proved of great value and interest to the students, whose thanks are due to Messrs. Woolley and to their representatives for their kindness and courtesy.

#### Public Institution News.

Holywell (Flintshire) Board of Guardians, at a recent meeting, decided to invite tenders for the supply of drugs from wholesale chemists.

St. Pancras South Infirmary is to be renamed "St. Pancras Hospital," and the North Infirmary will be styled "Highgate Hospital." Lewisham and Shoreditch Infirmaries are also to be re-christened "hospitals."

According to "The Hospital," the question of wages and hours of the employees at the London Hospital is now being considered by the court of arbitration under the auspices of the Ministry of Labour. The hospital committee feel that the staff ought to be paid reasonable wages and have reasonable hours, and the opinion is expressed that a voluntary hospital should not be run on the "charity" of its employees.

The movement for co-operation between London infirmaries and the general hospitals appears to be extending. St. Pancras Guardians have agreed to a scheme, arranged with the London Women's Medical School, whereby students may visit the infirmary and gain knowledge of special types of medical and surgical cases. The students at St. Mary's Hospital are to have frequent access to

the wards at Paddington Poor-Law Infirmary, in order that they may study special cases which are not usually found in the general hospitals. Pathological investigations for the Paddington institution will be carried out at St. Mary's laboratory.

#### Birmingham.

Judging by the various packing-cases seen recently, it would appear that the local export trade has received a fillip.

Increased railway rates are likely to affect adversely the trade of local industrial centres, according to evidence given lately before a Government Committee.

Much regret will be felt by pharmacists at the loss of Mr. John Wakefield, Ph.C., who has experienced in the death of his wife (see p. 56). Mrs. Wakefield was gifted with charming personality, and was a strong supporter of the church to which she belonged.

Mr. Marshall Freeman, barrister-at-law and pharmacist, has agreed to act as chairman of the Greater Birmingham employment committee. His acceptance has given great satisfaction both to employers and the trade-union leaders. He recently relinquished the position of civil liabilities commissioner for Birmingham and the adjacent counties. Mr. Marshall Freeman has also been elected to the new ecclesiastical parliament which has been established.

The annual report of the Birmingham city analyst (Mr. J. F. Liverseege, F.I.C., Ph.C.) contains several references to drugs and chemicals, notably powdered liquorice root, which was the subject of an unsuccessful prosecution (*C. & D.*, 1919, p. 271). One of thirty-four informal samples of ground ginger contained 10 per cent. of chalk. Vinegar should contain at least 4 per cent. of acetic acid. 321 samples were analysed, and twenty-three of them from sixteen different vendors were found to be below this limit. One sample of camphorated oil contained 5 per cent. of camphor and 95 per cent. of colza oil, and the vendor was fined. One sample of camphorated-oil substitute contained only 4.4 per cent. of camphor. Twenty samples of boric-acid ointment were too strong, containing 11.7 per cent. and 12 per cent. respectively; and six samples were weak, containing from 5.1 per cent. to 9 per cent. Six of the twenty-one samples of white precipitate ointment were either deficient in strength or not prepared with benzoated lard, as required by the British Pharmacopœia. One sample was a boric-acid ointment, and contained no white precipitate, and yet was labelled "Poison." A white precipitate ointment substitute was about a quarter of the strength of the Pharmacopœia article, but as there was no standard it had to be passed as genuine. Two of the fifty-seven samples of Glauber salt contained six parts of arsenic per million, which is in excess of the Pharmacopœia limit.

#### Bradford.

Public bacteriological work having increased fourfold during the past twelve months, the Health Committee has decided to appoint an additional bacteriologist.

Charged at Bradford Police Court, recently, with travelling without paying his fare, John Edward Fox, Bingley, described as an assistant chemist, was given the benefit of the doubt, and the case was dismissed.

#### Liverpool.

Mr. Prebble has written home from Buffalo, where he was on his way to the Falls.

Mr. William P. Evans, who writes from Toronto, has booked his passage home by the *Empress of France*, which is to sail on June 16.

Mr. John H. Robinson contemplates making his yearly visit to London next week. He is taking a short rest at his native Windermere.

Cameras and photographic materials are finding a good sale, and developers are in considerable demand. Amateurs find pleasure in making records of buildings marked for demolition.

Prizes for the British Pharmaceutical Conference competition are being given by Mr. C. A. Hill, B.Sc., F.I.C., President of the Conference, and by Mr. William P. Evans, chairman of the local committee.



**Miscellaneous.**

**FIRE.**—The premises of T. J. Smith & Nephew, Ltd., surgical-dressings manufacturers, Queen Street, Hull, were gutted by fire on June 5.

**POISONING.**—A verdict of "Death by misadventure" was returned at an inquest held at Middlesbrough, on June 7, on the body of an infant, who had died after swallowing some pills said to contain potassium nitrate.

**ACCIDENT WITH AN EXPLOSIVE.**—Mr. L. K. Croft, chemist and druggist, manager of the Doncaster branch of Boots, Ltd., was lately transferring a quantity of an explosive chemical from one bottle to another when it burst into flame, his left hand being severely burned.

**COLLECTION FOR A HOSPITAL.**—The staff of Johnson & Sons (Manufacturing Chemists), Ltd., London, E.C. 2, collected the sum of 20*l.* 3*s.* for the London Hospital on June 5. This amount was contributed in addition to the usual weekly collection for the staff's annual gift to the Hospital Saturday Fund.

**GRANT FOR BIO-CHEMISTRY.**—Following on the provision means to found a chair of bio-chemistry at Oxford (*C. & D.*, May 1, p. 79), has come a large endowment on the same subject at Cambridge, where a chair has existed for some years. The directors of the Commercial Union Assurance Co., acting as trustees of the estate of the late Sir William Dunn, have allotted 5,000*l.* for building and equipping an institute of bio-chemistry on a site provided by the University.

**WHOLESALE DRUGGISTS' CRICKET CHAMPIONSHIP.**—Burgoyne's v. The British Drug Houses, played at Crouch on June 5, resulted in a win for Burgoyne's by a four runs. The scores were 117 and 53 respectively. The present position is:

	Played	Won	Lost	Points
Allen and Hanburys	2	2	0	4
May & Baker	2	2	0	4
Burgoyne, Burdidges	2	1	1	2
British Drug Houses	2	0	2	nil
Stevenson & Howell	2	0	2	nil

**STATUS OF THE IMPERIAL COLLEGE.**—At a meeting held at Westminster on June 5 a resolution was passed urging the Government to give the College power to grant degrees by acquiring the status of a university. It was pointed out that there was no other example in the world of a population like that of Greater London having only one degree-conferring body within its area. In support of the object of the meeting were invited from many well-known men of science, including Andrew Balfour (Wellcome Bureau of Scientific Research) and Sir Herbert Jackson.

**DEVELOPMENT OF A STRIKE.**—The strike among the clerical staff of Lever Brothers, Ltd. (*C. & D.*, June 5, p. 8), had a development on June 8, when the National Warehouse and General Workers' Union called out in sympathy all Port Sunlight works staff. From the outset, Mrs. Lever have offered to meet joint representatives of the unions if they agree, but have pointed out that they will not negotiate with the two unions representing the same class of worker on two distinct wage programmes. The strike affects about 8,000 men. Scenes of disorder are reported in the public Press as having taken place on June 9.

**THE COURTS.**—At Boston, on June 3, an ex-soldier charged with having wilfully smashed a glass show-in the shop doorway of Mr. Walter Bullivant, chemist and druggist, West Street. He was ordered to pay 5*s.*—At Cambridge Police Court, recently, Minnie Coy, married, was bound over on a charge of having attempted suicide by taking spirit of salt.—At West H. Police Court, on June 7, two Chinamen were fined each for smuggling opium into the London docks. A total of nearly 3 lb. had been found on them. An officer of the shipping line employing the men stated in evidence that his company was recently fined 5,000*l.* in New York in connection with a similar offence, though the ship's officers were aware that there was opium on board. All their crew had been warned.

**Irish News.****Brevities.**

At Ballymena, co. Antrim, James Johnston (58), retired farmer, died from laudanum poisoning.

Mr. John O'Dolan, L.D.S., R.C.S.I., has been appointed dental surgeon to the Fermanagh War Pensions Committee.

Boyle Board of Guardians granted Mr. James Barry, Ph.C., chemist to Boyle Hospital, eight weeks' leave of absence on June 5. Mr. Barry is taking a rest by his doctor's orders.

Mr. Michael S. Kane, R.D., Clonmel, informs us that the salmon referred to in our last issue (p. 59) was caught by him with a 5-oz. split cane trout fishing-rod, an ordinary trout reel, live tapered cast, and trout fly.

**Belfast.**

At Belfast County Court, on June 2, a claim was brought by Mr. David Manson, R.D., 79 Peter's Hill, to recover compensation for the breaking of a pane of plate glass on April 28 in his premises. The solicitor for the City Corporation said the parties had agreed to an award of 32*l.*, and a decree was made accordingly.

Mr. James C. McNaught, eldest son of Mr. Andrew McNaught, Ph.C., Queen's Bridge Pharmacy, Belfast, has been appointed resident secretary in Belfast of the Scottish Amicable Society. Mr. McNaught joined the 9th Highland Light Infantry in September 1914, and got his commission in the 1st Royal Irish Regiment in September 1915. He served in France and Salonica, and afterwards acted as an intelligence officer. He was twice mentioned in despatches, and was demobilised in February 1919.

**Chemists' Golf Match.**

The annual competition for the "McMullan Challenge Cup," presented by Mr. W. McMullan (*C. & D.*, xci., p. 161), was, by permission of the Council of Donaghadee

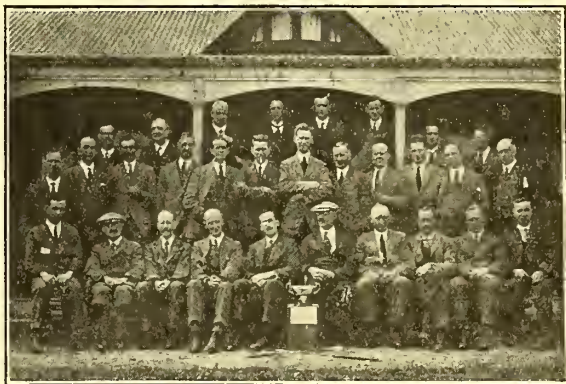


Photo.] [A. R. Hogg.  
CHEMISTS' GOLF COMPETITION, DONAGHADEE.

Club, played off on that course on June 2. There were thirty-four entries, divided into two classes, and the following were the best cards returned:

Class A.			
Mr. J. M. Poots	...	...	91-18=73
" A. W. Mann	...	...	92-16=76
" J. H. Haslett	...	...	93-16=77
" J. Macauley	...	...	96-17=79
" A. Leith	...	...	96-14=82
Class B.			
Mr. W. J. Rankin, jun.	...	...	99-22=77
" J. S. Balmer	...	...	100-22=78
" J. Guthrie	...	...	102-22=80
" A. M. Gamble	...	...	102-20=82

The final eighteen holes match play, between J. M. Poots and W. J. Rankin, jun., resulted in Mr. Poots winning the cup by 4 and 3.

## Scottish News.

### Brevities.

Mr. P. M. Hancock, chemist and druggist, has opened a pharmacy at 27 and 29 High Blantyre Road, Hamilton.

Some manufacturers are offering their goods on favourable terms to direct buyers, and "4711" eau de Cologne is again on the market.

Mr. R. C. Wilson, chemist and druggist, has acquired the business of Mr. J. A. Polson, J.P., chemist and druggist, Bonar Bridge, who has retired.

Some hilarity has been caused in a Dundee pharmacy by the receipt (from London) of three accounts, two of which were destined for branches several miles away.

Mr. John M. Bryson, chemist and druggist, has taken over the business of Mr. W. Leslie, chemist and druggist, Haddington. Mr. Bryson has had some years' experience in Lanark.

Mr. Alexander Henry Murdoch, chemist and druggist, has been taken into the firm of Henry & McMurtrie, chemists, Macduff. Mr. Murdoch is a grandson of the late Bailie Henry, founder of the firm.

One of the Insurance Committees is sending out a peremptory notice to panel chemists asking when their shops are open for the dispensing of prescriptions. One of the items required is "Day on which you take your half-day." The times are required on "Week-days," "Saturdays," "Sundays," "Holidays," and "Half-days."

The students at a Scottish school of pharmacy had a sweepstake on Derby Day. The organiser of the affair, greatly daring, approached the principal, suggesting that he should purchase a ticket. "I think, Mr. Blank," said the principal austerely, "that this hour is supposed to be devoted to practical botany." "Yes, sir, I know," replied the student, "but a sweepstake might be described as a branch of morphology, because in a way it has to do with the study of form!"

The workmen employed by the contractors in the erection of Brand's new acid works at Irvine entertained to dinner, on June 5, the contractors, officials, and members of the Standard Chemical Products Co., Ltd., under whose auspices the works are to be conducted. Mr. Quintin Moore, managing director of the Standard Co., said, in the course of his remarks, that this was the largest plant of its kind in Scotland, and that there was no plant of the same size in any single works in England. The plant consists of two separate units, each comprising two furnaces, two glovers, four chambers, and two Gay Lussac elevators and splash boxes.

### Edinburgh.

A licence to sell agricultural and horticultural poisons is being applied for by Thomas Elliot (R. M. Henderson & Co., seedsmen), Albert Street.

The Edinburgh Chemists' Golf Club held, during May, a Gibson medal competition at Burntisland, resulting as follows: (1) Mr. J. Finlay, (2) Mr. Dawson, (3) Mr. J. Robertson. The annual inter-city match for the Rainey Brown trophy has also been played, Edinburgh beating Glasgow by fourteen holes to six at Killermont. Mr. R. D. Douglas and Mr. W. S. Galbraith captained the respective teams, and the total number of competitors was forty.

### Fife.

Mr. James B. McLaren, chemist and druggist, Kirkcaldy, is holding a sale of brushes and combs.

A correspondent sends us a reprint of a letter sent by a Fife doctor to a treasurer responsible for paying him a fee. We extract the following: "I have your formal letter of May 15 last enclosing P.O. for 1s. 'as a fee for notifying a case of *ophthalmia neonatorum*.' I beg to return the order herewith. . . . such payment by a public body is in no shape or sense a fee for a professional man. For my own part, I regard it as at least a thoughtless insult to the medical profession. . . ."

### Glasgow.

Lorimer & Moyes, Ltd., Argyle Street, are removing to larger premises in Montrose Street, near George's Square.

Lawson & Co., Ltd., Bristol, have opened a dépôt at 3 Cadogan Street for the Valinda spray and other Lawson products.

Mr. J. Sheriffs, until recently Scottish representative for Robert Gibson & Sons, Ltd., Manchester, has left the company in order to take up other agencies.

Mr. A. Murray, secretary of the Scottish Pharmaceutical Federation, is soliciting (by postcard) votes for seventeen candidates for the forthcoming North British Branch election.

Miss Lang was on June 4 presented with a silver cake-stand by the staff of the Central Checking Bureau on the occasion of her leaving for Canada in order to get married. Miss Lang is the second member of the technical staff who has left for this purpose within the last fortnight.

The death of a boy (aged seven) from poisoning after eating belladonna berries (*C. & D.*, 1919, p. 956) resulted in the corporation being sued by the boy's father for 500l. recently, on the ground that defendants were in fault in having the shrub growing in that part of the Botanic Gardens open to children without taking proper precautions. The case was dismissed.

### Election of Executive.

There will be a contested election for the Executive Committee of the North British Branch of the Pharmaceutical Society. There are seventeen members to be elected at the annual meeting on June 16. The following are the thirty-one candidates:

Arthur, Harvey Phillips, 361 Victoria Road, Crosshill Glasgow.

Boag, Margaret Grant, 29 London Road, Edinburgh.  
Coats, John Thomson, 105 Broughton Street, Edinburgh.  
Craig, William Reid, 9 Kildonan Terrace, Paisley Road West, Ibrox, Glasgow.

Currie, Archibald, 102 Ferry Road, Leith.  
Dick, James, 16 Parsons Green Terrace, Edinburgh.  
Ferrier, James, York Place, Lumley Street, Grangemouth.  
Fisher, John Hutchison, 80 High Street, Dunfermline.  
Forbes, John Johnstone, 7 Scott Street, Perth.  
Gilmour, Andrew, 67 High Street, Burntisland.  
Gilmour, David, 5 Chalmers Street, Dunfermline.  
Glass, William Stephen, 219 Morningside Road, Edinburgh.  
Hunter, John Finlayson, 8 High Street, Dingwall.  
Hutcheson, Lewis, The Pharmacy, Beaulieu, Inverness-shire.  
Inglis, Robert, Sherwood Pharmacy, Glasgow Road, Paisley.

Irvine, Malcolm Miller, "Rockfield," Manor Road, Bellouston, Glasgow.

Jack, James, 102 High Street, Arbroath.

Kitchin, George Shiach, 116 Nithsdale Road, Pollokshields Glasgow.

M'Ewan, Arthur, 25 Clarkson Road, Cathcart, Glasgow.  
Mackenzie, Donald George, 148 Parliamentary Road, Glasgow.

Mackenzie, Thomas, 1 High Street, Inverness.  
McLaren, James Bryce, 126 Commercial Street, Pathhead, Kirkcaldy.

MacLennan, Kenneth John Cable, 40 Queensferry Street, Edinburgh.

M'Millan, Anthony, 623 New City Road, Glasgow.

M'Minn, Hugh Bell, 17 Main Street, Wishaw.

M'Nab, Walter Girdwood, Gorebridge.

M'Vitae, John Brough, 27 Langside Place, Glasgow.

Meldrum, Martin, 7 Burns Statue Square, Ayr.

Milne, Joseph, Millbank, Aberdeen.

Murray, Alexander, 255 Albert Road, Pollokshields, Glasgow.

Russell, James Anderson, 7 Grey Place, Greenock.

**VERMIN IN POULTRY.**—To exterminate insect pests in poultry, a correspondent of "The Times" advocates frequent spraying of surrounding woodwork with a paraffin emulsion. The irritation these parasites cause at the base of the quills, resulting in feather-plucking, may be relieved by the application of a mixture of one part of creosote and twenty parts of lard, or of one part of oil of caraway with five parts of vaseline. Dust-baths having an admixture of flowers of sulphur should also be provided.



## South African News.

(From "C. & D." Correspondents.)

The Chemist and Druggist "is supplied weekly to members of all the Chemists' Societies in South Africa.

### Cape Province.

**BUCHU.**—The tender of Thomson, Watson & Co., Cape Town, for the purchase of buchu has been accepted at 6d. per lb. by the Union Tender Board. This is, sumably, buchu gathered on Crown lands.

**CHEMISTS STUDENTS' ASSOCIATION.**—A meeting of the Chemists Students' Association was held in the Red Triangle Club, Adderley Street, Cape Town, on April 16, when Mr. D. Fryde presided over a large number of students. A constitution was adopted similar to that drafted by the temporary committee. Mr. D. Fryde was elected chairman, and Mr. H. Westerman secretary for the ensuing year. Miss Levy and Mr. Louw were appointed to act as delegates to the executive of the Chemists' Employés' Association.

**ANTHRAX FROM SHAVING-BRUSHES.**—The Ministry of Health announce that in the last few weeks several cases of anthrax have occurred in South Africa, two of which have been fatal, and that in a substantial proportion of cases it has been found that the infection was from new shaving-brushes recently imported from Japan. Samples have been taken from several consignments, which have been found to be infected with anthrax germs. As several consignments have now been distributed throughout the country, it is impossible to discover them all. Retailers and individual purchasers of shaving-brushes are therefore advised (says the P.A.T.A. Monthly) to consult wholesalers or dealers, whether the purchase is not one of a batch recently imported from Japan. The Government are taking steps to regard to the further importation of shaving-brushes.

**CAPE TOWN CHEMISTS' ASSISTANTS' ASSOCIATION.**—The membership of this Association is steadily increasing, and the students' section has already been formed. The honorary secretary of the Association has been interviewed by a representative of the "P.A.T.A. Monthly," in details of aims and objects of the Association are hereby set out in that journal. Mr. P. E. Bluett, the hon. secretary, in the course of the interview, said that

there are two sections of employés that stand out clearly to the general body—namely, the qualified assistant and the apprentice. The qualified man has a definite status in the industrial world; is in a measure protected by his qualifications, and is tolerably certain of a decent living. The apprentice, too, has a certain status, inasmuch as he is protected by his indentures, and has the prospect before him of attaining qualified rank.

"But between these two sections," continued Mr. Bluett, "there exists a large body of male and female assistants who are designated unqualified. By the term unqualified I want to make it clear that I do not in any way mean unlearned. Far from it, for we all know that in the ranks of a class there are very many exceedingly skilled workers. No; by unqualified I mean those who are not adequate enough to hold the diploma of the Pharmaceutical Society."

It is common knowledge that large numbers of employes who belong to this class are daily engaged in the different branches of work entailed in the chemist and druggist business. Amongst them may be classed the lifted shop assistant, the laboratory assistant, workers in chemical factories, and warehousemen. We felt," he continued, "that those I have mentioned, who have no very definite status, although they have interests in common, more or less separated from each other. For many years there has been a growing feeling that this state of affairs should cease, and that it was desirable that a body should be formed composed of these bodies with the object of promoting mutual welfare and development, the existence of the Chemists' Employés' Association. It is to give each member a sense of personal security, to guarantee that every possible means will be adopted to assist him, or her, as the case may be, to become a more efficient worker. Means will be furnished for that purpose, and I may say that steps have already been taken

to deal with the situation." Proceeding, Mr. Bluett said that employes are to be grouped in sections, such as qualified assistants, apprentices, laboratory assistants, senior and junior warehousemen, clerks, etc., and also a section for coloured workers.

"Each section will appoint two representatives to the executive (already chosen at the general meeting), to whom they will submit any resolutions adopted by their particular section, but these motions will be discussed and voted upon by members of the executive only. By this means we hope no section, however small, will be overlooked, and at the same time the interests of one section will not clash with those of another. Of course, we have not overlooked the fact that there are interests, among them that of remuneration, where all sections will be vitally concerned. Here let me say, once and for all," emphasised the hon. secretary, "that our Society has not been formed for the purpose of making extortionate demands upon employers, as seems to many of us to be the prevailing impression. Its object is to promote the welfare of its members; to help them to become more efficient, and to make each member realise that he is a human being and not a mere cog in a vast machine. It has no desire, nor has it any intention, to stir up discontent among its members. On the contrary, it would much rather try and allay such a feeling, should it arise, through payment of an inadequate wage, for instance, by bringing to the notice of the employer in a sane and constitutional manner the hardships followed by such a state of affairs, trusting to his sense of equity and justice to meet the situation as far as lies within his power."

## French News.

(From the "C. & D." Paris Correspondent.)

**THE SCARCITY OF CREOSOTE** has led to the trial of fluoride of sodium as a preservative for railway sleepers (it is said the Germans and Austrians used it during the war). It is, however, probable that they employed it in combination with some other substance. Used alone, MM. Devaux and Bouygues report, its action is slight and only temporary.

**THE NEW PHARMACY BILL.**—The draft of the new Pharmacy Bill, formally lodged with the Chamber of Deputies by MM. Charles Bernard, Delom-Sorbé, Emile Vincent, Gilbert-Laurent, Maître, and Monténot, has been handed over to the Committee of Public Hygiene for consideration. M. Emile Vincent is President of this committee, which consists of about fifty members, and M. Delom-Sorbé is a Vice-President.

**DETECTING BLOOD AND IRON.**—A French proverb assures us that *l'argent n'a pas d'odeur*, but M. Crouzel holds that other metals are not odourless. A note by him, read at the Paris Society of Pharmacy's last meeting by M. Crinon, stated that iron has a very specific smell, that "the smell of blood is nothing but the smell of iron," and that this odour ought to be utilised for detecting the presence of blood or iron in certain physiological and pathological liquids.

**THE NATIONAL ASSOCIATION OF BELGIAN PHARMACISTS** offered their French colleagues of the Association Générale an interesting souvenir of the annual meeting held at Strasbourg some months ago. This consisted of a brochure printed from the type and engravings of the famous Plantin Press at Antwerp. The marginal ornaments, for instance, appeared in the "Florum et coronarium odoratorumque historia," Remberti Dodanaei (1568); the "Purgantium Aliarumque herbarum historia" of the same (1573); and the "Plantarum seu Stirpium Historia," Matth. Lobelius (1576).

**THE INTERMINISTERIAL COMMITTEE** of Medicinal Plants, etc., has just presented the first report to the Paris Society of Pharmacy. The subjects included: A treatise on the origins and objects of the committee; reports on "Lavender" and "The Cultivation of Pyrethrum"; on the "Medicinal Plants of the Aveyron Department," by MM. Bénézech and Toulouse; on those of Mayenne and the Sarthe, by MM. Labbé and Gentil; a "Methodical Catalogue of Official and Medicinal Plants," by MM. Bruntz and Jaloux; and a "Report of the Congress on Drying Plants."



## Legal Reports.

**Rice-Starch Powder Dispute.**—In the City of London Court, on June 3, Judge Atherley-Jones, K.C., delivered a considered judgment in a case in which the Wilmac Produce and Manufacturing Co., Ltd., 14 Bow Lane, E.C., made a claim against Mr. G. C. Gagan, 109 Inville Road, S.E., for 100*l.* The case concerned a contract for Wilmac rice-starch powder, and a commission claim (*C. & D.*, March 6, p. 72). Judge Atherley-Jones, K.C., now found for the plaintiffs for 60*l.* on the claim and counter-claim, with costs.

**A Chemist's Estate.**—In the King's Bench Division (Probate) at the Four Courts, Dublin, before Mr. Justice Kenny, on June 4, in the Goods of James H. McManus, Mr. Tobias (instructed by Mr. Potterton) applied on behalf of Mrs. Susan Eleanor McManus for an order giving her liberty to apply for administration of her husband's estate on the presumption of his death. Counsel moved on the affidavit of Mrs. McManus, who stated that her husband left Dublin for Kingstown with the intention of travelling to Holyhead on the R.M.S. *Leinster*, which was torpedoed by a German submarine shortly after leaving Kingstown on the morning of October 10, 1918. He was on his way to take up a position as assistant chemist in Walsall. No trace of him has since been discovered. He never reached Walsall. Mr. Justice Kenny granted the application.

**A Lady Apprentice.**—The action in which Miss Doris E. Humphrey and another were plaintiffs and Mr. V. E. Hanna, Ph.C., Dublin, was defendant, was listed for hearing before Mr. Justice Pim and a special jury of the City of Dublin at the Four Courts on June 7. When the case was called Mr. Healy, K.C., with whom were Mr. Wood, K.C., and Mr. Moore (instructed by Mr. C. F. Mathews) for the plaintiffs, said he was glad to inform his lordship that he would not be troubled with the case as the parties had arrived at a settlement, the terms of which were included in a consent. The action was brought on behalf of Miss Humphrey to recover a fee of 50*l.* paid to the defendant, and also damages for breach of contract. The young lady was anxious to learn the business of a pharmaceutical chemist and had been apprenticed to the defendant, the term being four years. The action arose out of a misunderstanding between the parties which had now been cleared up. The defendant had agreed to return Miss Humphrey 30*l.*, part of her fee, and to pay her a sum for costs. He also undertook to give her a certificate in respect of the two years that she had already served as an apprentice. Mr. E. S. Murphy, K.C., with whom were Mr. Wylie, K.C., and Mr. Oliver Murphy (instructed by Messrs. Beauchamp & Orr), for the defendant, expressed his assent. Mr. Justice Pim received the consent, and said he was sure the settlement was in the best interests of all the parties.

**A Wholesalers' Warranty.**—At Lambeth Police Court, London, on June 9, John Richardson & Co. (Leicester), Ltd., wholesale druggists, Leicester, were summoned for giving a false warranty in writing to Mr. Fred. H. Hendry, chemist and druggist, Southampton Street, Camberwell, S.E., to the effect that certain camphorated oil purchased by him from them was in accordance with the requirements of the British Pharmacopœia, whereas in fact it was deficient in camphor to the extent of 30 per cent. Mr. C. E. Newton, who supported the summons on behalf of the Camberwell Borough Council, explained that Mr. Hendry had purchased the oil from the defendants with a warranty. Mr. C. H. Kirby, who appeared for the defence, urged that the defendants were entitled to have the summons dismissed on the ground that when they gave the warranty they had every reason to believe that the statements or descriptions contained therein were true. It was their practice to make the oil of a strength exceeding that required by the Pharmacopœia, so as to guard against any possible loss by evaporation. So far as could be ascertained, a mistake must have been made in the making of this particular oil, but at the time they gave the warranty the defendants

had every reason to believe that the oil was of the proper strength. After some evidence had been called for the defence, the magistrate said it was quite obvious that a mistake was made in manufacture. He suggested that the summons should be withdrawn upon payment of costs. Mr. Newton assented, and the summons was accordingly withdrawn upon payment of 3*l.* 3*s.* costs.

**Employers' Agreements.**—At the Calcutta High Court recently Mr. Justice Ghose delivered an interesting judgment in an application made by the plaintiff in the suit brought by Smith, Stanistreet & Co., Ltd. Calcutta, against Percy Chandler Knott, chemist assistant. The judgment, which fully explains the facts of the matter, is as follows: This is an application by Smith, Stanistreet & Co., Ltd., against the defendant Percy Chandler Knott, for an order that he may be restrained by an injunction from entering the service of the firm of Glen & Co., or any other firm, person or company, pending the final disposal of the suit, or for an order that the costs of this application should be paid by the defendant. The application has arisen under the following circumstances. On January 16, 1919 the defendant entered into articles of agreement with Smith, Stanistreet & Co., Ltd., by which he agreed to serve the company for a period of five years from January 1, 1920, and he agreed, among other things, not at any time during the period of the said agreement or for a period of two years after the determination of his employment, to undertake, or carry on, or assist, or be employed, or be directly or indirectly concerned or interested in any business of chemist or druggist in any of its branches, manufacturing, wholesale, retail, analytical, within a radius of fifty miles from Calcutta, or within a radius of fifty miles from any other place where the company may be carrying on business at the time of such determination. The plaintiff company state that on March 31, 1920, the defendant, during the continuance of the said agreement, and in breach thereof, and without any valid or lawful reason or excuse, left and departed from the service of the company, and that on April 1, 1920, the defendant entered into the service of Glen & Co., No. 1 Grant's Lane, Calcutta, a firm of merchants, agents, and exporters of Indian drugs and medicines, and that the defendant, while in the service of the plaintiff company, had gained considerable knowledge of the firms with which the plaintiff company did business, which knowledge if information would, according to them, be of material use to other firms who deal in commodities in which the plaintiff company deal. The plaintiff company further state that they apprehend that if the defendant were permitted to continue in the service of Glen & Co. they would suffer loss of trade by reason of the fact that the defendant would be in a position to afford Glen & Co. information as to the plaintiff company's business and customers, which would give the said Glen & Co. an unfair advantage in competing with the plaintiff company. The plaintiff company also state that Glen & Co. are a rival firm carrying on a similar business. The defendant has entered appearance, and has appeared by counsel before me. In his affidavit of April 29, 1920, he admits the agreement referred to above, and states his readiness and willingness to return to the employment of the plaintiff company in the term of the agreement of January 16, 1920. Learned counsel for the defendant, on behalf of his client, has taken the following undertaking to the court: "I am prepared to go back to the service of Smith, Stanistreet & Co., Ltd., to-morrow, and to work there in terms of the agreement of January 16, 1920, and undertake not to enter into the service of Glen & Co., or any other firm, person or company pending the final determination of this suit." On that undertaking being given, it is not necessary for me to issue an injunction restraining the defendant in the manner prayed for by the plaintiff company, for the undertaking itself will operate as an injunction in terms such as are prayed for by the plaintiff company. Costs were awarded to the plaintiff company, who, it was intimated, were quite willing to take the defendant back into their service.



## The Profiteering Act.

### Notes.

#### SPECIAL DISCOUNTS.

The Board of Trade have issued a circular letter to Profiteering Committees, stating that the attention of the Department has been drawn to the fact that it is a custom in certain cases for wholesale firms to allow a special discount or bonus to retail traders on business transacted with them over a given period of time. In many cases no mention is made of the special discount on the invoice which accompanies the particular consignment of goods to the retailer, the retailer receiving his discount at the end of the given period. This special discount is one of the circumstances of the case which should be taken into consideration in determining any complaint of alleged profiteering by a retail trader. The question whether the retailer does in fact receive such special discount should be ascertained by cross-examination at the hearing of the complaint.

#### Central Committee Cases.

##### A QUESTION OF QUALITY.

At the sitting of the Complaints Tribunal of the Central Committee on June 3, the General Bottle Co., 78 St. Agnes Place, Kennington, S.E., stated that they had been offered washing soda at 15s. a cwt. by May & Baker, Ltd., manufacturing chemists, Battersea, S.W. The complainants did not make any purchase, but they alleged that other firms were selling washing soda at 7s. 2d. per cwt., delivered, by Messrs. Brunner, Mond & Co., Ltd., and the United Alkali Co., Ltd., had fixed their price at 5s. 6d. per cwt., exclusive of Mr. E. E. Boys, a partner in the General Bottle Co., who stated that in January his firm were offered washing soda by the respondents, and on January 30 Messrs. May & Baker sent them a *pro forma* invoice for 3 cwt. of soda at 15s. per cwt., while 3s. was charged for two sacks. They had purchased any of the soda from the respondents. The Chairman (Mr. W. Marshall Freeman): Was there any difficulty in obtaining soda in January?—Yes. In answer to Mr. May, who appeared for the respondents, the witness said that he told the respondents, when he spoke to them on the telephone, that the price they were asking was excessive. He did not remember being informed by the respondents that the soda they were offering was the best, and that it had been recrystallised. There were several kinds of washing soda. Mr. May: The respondents are only manufacturing chemists, who generally supply chemists and druggists in the ordinary way of trade. Witness: I know they are manufacturing chemists. Would you be surprised to know that for five years Messrs. May & Baker have not had any common washing soda?—I do not know that. Mr. May said he would like to make it clear that there were numerous kinds of washing soda. The complainants required ordinary washing soda, and if they had asked for that they would have been told that the respondents had not got any. Mr. James Francis Rea, principal staff officer in the Department of Industries and Manufactures, was asked by the chairman what his state of supply was regarding soda ash and soda crystals between December 20 and the end of January. Witness: The general position is this, that there is a world shortage of soda ash, and so far as I can see it is likely to be a world shortage for some little time. Soda ash is required in numerous industries, and it is in connection probably that we have come to experience this shortage. The manufacturers of soap and glass, and the textile industries require soda ash. A certain quantity is required for household purposes in the form of soda crystals. It comes to this, that because of the shortage because manufacturers cannot supply the full demand, there is competition between the big industries of the country, which want soda ash, and the other consumers. Among those other consumers are the householders, who want soda crystals. Very largely with the cognisance and approval of the Board of Trade, we know, there is

a shortage of soda. We feel that the housewife can better stand that shortage than the manufacturer. If the latter experienced any shortage it would mean unemployment. We have had indications that some lots of soda are being bought up and dealt in at fairly high prices. The Chairman: Dealt in by speculators?—Yes, more than by manufacturers. There are two big groups of manufacturers producing soda ash. In addition there are, in peace times, a number of smaller firms who buy soda ash and recrystallise it. The Chairman: Do these smaller firms buy from the big groups?—Yes, they get soda ash, add water, and let it recrystallise. There are also other firms who use soda ash for making refined products. The Board of Trade have been asked by users and grocers' associations to take steps in order to ensure that bigger supplies are available on the home market, and that less is exported. In that connection it has to be remembered that although export is taking place, it is nothing like what it was before the war. The increase in exports of one of the big groups is very much less than the increase in the quantity which that concern have put on the home market. There is now a very largely increased demand for soda, owing possibly to the increased activity in various manufacturers who consume chemicals. The Chairman: Have the Board of Trade found these two big groups of manufacturers willing to co-operate in limiting exports?—They have done everything possible. One of the two big groups has told buyers who wanted to purchase for export that they would not supply unless a chit was first obtained from the Board of Trade allowing the export. The witness said that in 1913 the exports of soda from this country were 3,000,000 cwt., while in 1915 the figures rose to 4,500,000 cwt. Last year the exports dropped to 3,300,000 cwt. Mr. C. Butler, sales manager to Brunner, Mond & Co., Ltd., Northwich, stated that his employers were the centre of one of the great groups of alkali manufacturers. The Chairman: Are you associated with the United Alkali Co., or do they represent the other group?—We do not associate with them. They are competing manufacturers. Are there any others besides these two groups of big manufacturers?—I do not know of any others. The witness said that there were quite a number of small manufacturers about the country who purchased soda ash from the big groups, dissolved it, and then recrystallised it in order to make washing soda. A ton of soda ash would produce about 3 tons of washing soda. The price of washing soda was now 5l. 10s. a ton. The price had not been varied for some time, but that of soda ash was advanced some little time ago by 10s. a ton to meet the increased railway charges. The chairman asked if Messrs. Brunner, Mond & Co. had experienced any difficulties in obtaining supplies of raw materials, and the witness replied in the affirmative. A question was asked as to whether supplies of raw materials were more difficult to obtain now than during the war, and the reply was that the position did not seem to be improving. As a result of the difficulty in obtaining raw materials, Messrs. Brunner, Mond & Co. could not meet all the demands made upon them. They could produce more soda if the supply of raw materials was better. They could also sell more if the production was increased. His firm had adopted a system of rationing their customers. The Chairman: Your firm have co-operated with the Board of Trade in the matter of export?—We have absolutely ceased to export all washing soda since the middle of March. We have not accepted a single order for soda crystals for export from this country. Mr. Charles Samuel Arthur, London sales manager to the United Alkali Co., Ltd., said he had heard the evidence of the last witness and agreed with it. The chairman said that Mr. Blomfield, secretary of the British Chemical Trade Association, had attended to give evidence, but could not give any further information on the matter. Under the circumstances, it would not be necessary for Mr. Blomfield to give evidence. Mr. H. Crimp, sales manager to the respondents, said he quoted the complainants 15s. a cwt. for soda. He told the complainants that they had only pure crystals to offer, and had nothing else to sell. The soda they were offering was "sodium carbonate crystals, B.P." The chairman pointed out that



the *pro forma* invoice issued by the respondents referred to washing soda, and he suggested that when the complainants asked for washing soda they should have been told that May & Baker, Ltd., only made pharmaceutical preparations. A member of the Tribunal: Have you ever heard of sodium carbonate crystals, B.P., being used for washing purposes?—Yes, if you cannot get anything else. Have you sold it for washing purposes?—I don't remember. Mr. W. G. Hyde, a director of the respondent company, said that there were two or three different kinds of washing soda. The latter was a general term for carbonate of soda, and it covered all qualities. The respondents purchased 58 per cent. alkali from Messrs. Brunner, Mond & Co., and treated it themselves. The Chairman: Do you generally sell your product as washing soda?—No; very few people ask us for it. He added that soda was used in the manufacture of glass. The pre-war selling-price of their product was 10*l.* a ton at the works. The cost of manufacture in 1914 was 4*l.* 15*s.* a ton, and it now cost 10*l.* 4*s.* 9*d.* a ton to produce. The present selling-price was 15*l.* a ton, delivered, and it was estimated that the cost of delivery was 2*l.* Their present profit was less than was made in pre-war days. The Chairman: Don't you consider it rather important to put the proper description on your invoice, lest any question should arise afterwards under the Sale of Food and Drugs Act?—We do. Then how was it that your *pro forma* invoice was put under the term "washing soda"?—A *pro forma* invoice is not an invoice, it is not a sale, but an invitation to send along money and we will supply. We give the goods the same name as a customer gives them. For instance, grocers speak of carbonate of soda when they mean bicarbonate of soda. In answer to further questions, the witness said that his company liked to get deliveries of soda ash in 20-ton lots. They were, however, now manufacturing more or less from hand to mouth. They sent to Silvertown and obtained 2-ton lots. They had a contract running with Messrs. Brunner, Mond & Co. for the supply of soda ash at 6*l.* 10*s.* a ton. The present market price of soda ash was 7*l.* a ton. Mr. May said that the respondents desired to repudiate any suggestion that they were profiteering. They were now selling soda at a profit of 3*l.* a ton, while in pre-war days the profit was 5*l.* a ton. Other chemical manufacturers were at the time offering a similar article at 16*s.* per cwt. If the complainants had agreed to purchase the substance, they would have received a receipt which would have stated fully what it was, while the goods themselves would also have been adequately labelled. The chairman, in giving the decision of the Tribunal, said that the *pro forma* invoice rendered by the respondents referred to "3 cwt. of washing soda." The respondents contended that the *pro forma* invoice was not an offer to sell, but the Tribunal were against them on that point, and the transaction came within the scope of the Profiteering Act. The evidence given by the representatives of Messrs. Brunner, Mond & Co. and the United Alkali Co. went to show that what the respondents had attempted to do amounted to profiteering. The defence put up by the respondents seemed to the Tribunal to amount to nothing more or less than an attempt to introduce some more or less complicated technical evidence calculated to confuse the issue in the case and likely to mislead a Tribunal the members of which were not furnished with any particular technical knowledge on the subject. Fortunately, that Tribunal comprised certain members who had commercial, technical, and chemical experience in the handling of washing soda and soda crystals and also of carbonate of soda crystals purified in accordance with the standard laid down in the British Pharmacopoeia. The Tribunal were at a loss to understand how the respondents could hope to persuade them that any non-technical member of the public asking for washing soda, or receiving an invoice of such a character, could possibly understand it to refer to carbonate of sodium of the quality laid down in the British Pharmacopoeia. That standard was something even beyond what Messrs. Brunner, Mond & Co. and the United Alkali Co. sold as commercial soda ash. The two firms mentioned sold soda ash at 7*l.* per ton, and they also sold the soda in its recrystallised form at 5*l.* 10*s.* a ton. Under

the circumstances the Tribunal were unable to accept the suggestion made by the respondents that they would, in fact, had the money been forthcoming and the offer been accepted, have sent pure carbonate of sodium of British Pharmacopoeia standard. If there was any misunderstanding, there was at any rate no misunderstanding regarding the document the respondents sent out, in which they described the substance as washing soda. The Tribunal considered it a very bad case. They found it proved, and would order the papers to be sent to the Director of Public Prosecutions.

#### SPECULATING IN SODA.

At the same sitting, a complaint was lodged by Mr. Cohen, wholesale and retail grocer, 31 High Street, Kinsland, N., who alleged that he was offered soda crystals by Tinlings, Ltd., general produce merchants, 31 Cowcross Street, E.C., at a price of 15*l.* a ton, the market price being 5*l.* 10*s.* a ton. It was stated that during last April the company issued a circular in the course of which occurred the following passage: "Being associated with a company whose registered offices are with us, and whose capacity of output is practically illimitable, we are in a position to offer soda crystals for delivery commencing not later than June 17 at the price of 15*l.* a ton, delivered London, or on rail. As the demand for this commodity is so great and the present supply is so restricted we can only accept orders accompanied by a deposit of 50 per cent." Mr. Tinling, giving evidence, said that last April his company purchased soda crystals through an agent of the United Alkali Co., Ltd., at a price of 8*l.* 10*s.* a ton. The representative of the United Alkali Co. decided that sales by them at such a price had taken place. Mr. Tinling further stated that his company applied to every firm in London and the country, and they understood that the market price of soda crystals was anything from 15*l.* to 20*l.* a ton. Under these circumstances the company could not be accused of attempted profiteering. When the company issued their circular they were hoping to obtain soda from the Larne Salt and Alkali Co., Ireland. It could not, however, be produced by the Larne company at anything like 15*l.* a ton. The chairman said that when Tinlings, Ltd., issued their circular the company which had an "illimitable output" was the Larne Salt and Alkali Co. The witness said that as so, and the chairman then suggested that on April 16 the Larne company was derelict. Witness: My friends had just put up 74,000*l.* for that company. The Chairman: Why did you want people giving orders to send you a deposit of 50 per cent?—We did not particularly want the money, but we wanted to restrict the number of orders and be sure that we were getting firm orders. Have you received any deposits of 50 per cent?—I think we may have in one or two instances. Have you supplied the goods?—Not yet. Have the Larne company ever manufactured an ounce of soda crystals?—No, they have never manufactured any, but capital was found for the company, and we were told it would be in working order in three months. The chairman said that the Tribunal were of the opinion that the circular issued by the respondents was very remarkable. The market price of the soda was 5*s.* 10*s.* a ton, and the Tribunal rejected the suggestion that the market price of an article was any expected speculative price that persons who obtained supplies and held them up chose to advertise at. The Larne company, apparently, up to a very recent date was a derelict company. When the circular was sent out in April that company was not in a position to supply soda crystals, and was not likely to be in such a position for some time. The Tribunal took a very serious and severe view of the circumstances of the case. They not only found that there was a calculated attempt at speculative profiteering, but they also regarded it as a very serious matter that Mr. Tinling was trying about the time in question to get soda at 5*l.* 10*s.* a ton from Messrs. Brunner, Mond & Co. and the United Alkali Co., or either of them, and offering it at 15*l.* a ton. In addition the respondents were trying to get 50 per cent. of the purchase price which they could. They were keeping that 50 per cent. in hand with the result in law that had the market fallen the respondents



its would have been in a position to hold the unfortunate depositors of the 50 per cent. to their bargain. "It is," proceeded the chairman, "a wholly reprehensible proceeding, and one that we should be very sorry to suppose exists to any wide extent in British commercial circles. There is another point in this case to which I must draw attention. The result of this speculative profiteering is to place the ultimate burden on the shoulders of the unfortunate consumer who, in the vast majority of cases, belongs to the poorer classes, because it is in the homes of the poor that washing and things of this sort are done and washing soda and soda crystals are most commonly known. Looking at the figures in this case, it is quite evident that instead of being in a position to sell this article at a price varying from 3d. to 1d. a pound, the retail grocer, forced to purchase at this greatly enhanced price, would have to charge his customer from 2s. to 3d. a pound in order to make any profit at all. I regard this case against Tinlings, Ltd., as a very bad case, as bad a case as any within my recollection that has come even before this Tribunal, and we shall direct the clerk of this Tribunal to place the papers before the Director of Public Prosecutions."

#### THE PRICE OF SODA.

At the sitting of the same Tribunal on June 5, Mr. Edward, 22 Tyrrell Road, S.E. 1, complained of being charged 11s. for a cwt. of soda by J. Manger & Sons, Ltd., Kingsland, E. The complainant alleged that he had previously been charged 7s. 3d. per cwt. by the respondents, while the market price was 5s. 6d. Mr. Mager, who appeared for the respondents, said that during the past twenty-five years they had been manufacturers. Up to the end of last year they were able to obtain supplies of raw material. Unfortunately, since that date they had not been able to obtain the raw material. In order that they should have some soda, the respondents purchased from firms outside London, sometimes at high prices. The respondents had never charged their customers more than 11s. per cwt., although in some instances they had themselves paid a higher price in order to obtain it. He produced invoices showing purchases which the respondents had made from A. G. Collins & Brother, Cardiff. The purchase price of the soda was from 8l. 10s. to 11l. a ton. It had since risen in price, and they had been offered soda at as much as 16l. a ton. Mr. Louis Collins, manager of A. G. Collins & Brother, chemical and soda manufacturers, Cardiff, said that he understood that the soda supplied to the respondents was ordered for export, and he was at that time of the opinion that the Profiteering Act did not apply to goods which were intended for the export trade. He admitted having entered into contracts with the respondents to the extent of 37l., on which a gross profit of 96l. was made—i.e. 28½ per cent. The chairman said that on some of the soda the witness's firm handled they made a gross profit of over 100 per cent. on the cost price, while on the selling price the gross profit was in some instances as high as 55 per cent. He asked what was the justification for such a high standard of profit in Cardiff, and said it seemed to be rather a serious matter. The witness said that they had to take a risk in getting supplies. The Chairman: Then, with your eyes open, you went into a gamble?—Well, it was a bit of a gamble. I thought the stuff was wanted for export. A member of the Tribunal pointed out that in February Messrs. Collins executed an order for seventeen tons of soda, on which they made a profit of 10s. a ton. A month later, when the shortage of soda was more stringent, Messrs. Collins purchased soda at 5l. 10s. a ton and resold at a profit of over 100 per cent. The Chairman: You sold soda in February at a profit of 10s. a ton because it had not then occurred to you to join the noble army of profiteers. In giving the decision of the Tribunal the chairman said that the respondents' prices were not unreasonable in the circumstances, and, accordingly, the complaint against them would be dismissed. The case, however, could not end with the clearing of the reputation of the respondents. "We should," proceeded the chairman, "fail in our duty if we did not take note of

the evidence disclosed during the hearing of the complaint. That evidence has shown the existence of a widespread gambling conspiracy—I can find no other appropriate term for it—on the part of merchants and others to take advantage of the shortage of supplies to force up to an outrageous height the price of all the household soda they could lay hands upon. The respondent in a previous case which we heard had the temerity to bring our notice to an article in a well-known London newspaper, in which it was alleged that, as the result of a combine, household soda was now manufactured in England by only one company, which had a virtual monopoly, and that, as a result of that monopoly, retailers of this article were obliged to buy it in the open market at 24l. a ton, whereas the makers' price—that is, presumably, the monopolists' price—was only 5l. We find it to be the fact that Messrs. Brunner, Mond & Co. and the United Alkali Co. have honourably declined to take advantage of their position, and have maintained their normal price, both for soda-ash and for household soda, and we are satisfied that the people who are responsible for the enormous inflation of prices, of which we have heard, are the outside speculators and gamblers, and we have no doubt that they have inspired these inaccurate, misleading, and mischievous newspaper allegations as to monopolies and profiteering simply to provide a cloak and an excuse for their own evil doings." Mr. Collins was of the opinion, continued the chairman, that all business was a gamble. The Tribunal would be sorry to think that was an accurate description of the moral tone and standard of British commerce. It was a curious fact that in February Messrs. Collins were content with a profit of 10s. a ton. Mr. Collins seemed to have caught what appeared to be the prevailing epidemic of profiteering. The Tribunal would be failing in their duty if they did not refer the evidence in regard to the transactions carried out by Messrs. Collins to the Complaints Committee of the Profiteering Act Department, who had power to refer the matter to the Board of Trade, who, again, had power, if they thought fit, to initiate any necessary prosecution. It was only fair to Messrs. Collins to say that their representative had shown a candour which was altogether unusual. Mr. Collins was a type of trader who had not grasped the fact that a Profiteering Act was on the Statute Book, or, having grasped it, had come to the rather unwise conclusion that it could be ignored. The Tribunal would also take a similar course in regard to the dozen merchants in different parts of the country who had been offering soda for sale at prices ranging from 13l. to 13l. a ton, in order that their cases might be thoroughly investigated. In concluding, the chairman said the Tribunal hoped that the result of that inquiry might be to put an end once and for all to any further gambling and profiteering in a very essential and widely-demanded household commodity, and also that what he had stated might have the effect of setting public opinion on the subject of monopolies at rest, at any rate so far as soda was concerned.

#### Complaints.

**BERMONDSEY.**—At a recent sitting of the Profiteering Committee, the hearing of a case of alleged profiteering on the sale of a pair of Ansonia nail-clippers by Mr. John McIntosh, chemist and druggist (*C. & D.*, May 22, p. 89), was concluded. The case had been adjourned for the day-book to be examined. The clerk now reported that with the inspector he had examined the day-book, and found the branch manager's statement as to the price paid for the scissors to be correct. They also visited the headquarters of the firm at Queen's Road, Peckham, and, although the invoice for the scissors could not be produced, they saw the counterfoil of the cheque paying for the goods. He added that the wholesale price of Ansonia nail-clippers had fallen from 24s. to 8s. 6d. a dozen. The Committee decided to dismiss the case and to refer to the Board of Trade the question of the wholesale price paid.

**CHELSEA.**—At the sitting of the Profiteering Committee on June 3, a complaint was heard against Bennison's, Ltd., chemists, 8 Cale Street, S.W., in respect of a



charge for a stick of Colgate's shaving-soap. According to the evidence of the complainant, he called at the respondents' shop at 325 King's Road, Chelsea, and was charged 1s. 9d. for a stick of the shaving-soap. Afterwards he was informed from another source that the charge for the soap should be 1s. 6d., and, on telling respondents of this, they refused to return the 3d. on the ground that the matter had first of all to be referred to the head office in Cale Street. Mr. McIntyre, who appeared for the respondents, said that they were bound to sell according to a certain schedule of prices laid down by the wholesalers. He produced one of these lists. Mr. Thomas William Piggott, an assistant with the respondents, gave confirmatory evidence. A lady member suggested that the case be adjourned until the invoice was produced. The chairman agreed, and said that Mr. Bennison must attend and produce all documents. Mr. McIntyre: Someone will come, but Mr. Bennison will not be here. The Chairman: Do you mean to say that he will refuse to attend before this Committee? Who are Bennison's, Ltd.? Mr. McIntyre (to the respondents' assistant): Don't answer that question. The Committee ordered an adjournment for fourteen days, respondents then to produce the invoice and price-lists of April 25 and March 22.

**DARLINGTON.**—At the sitting of the Profiteering Committee on June 4, a complaint was heard regarding an alleged overcharge of 1½d. for a tin of Eucryl tooth-powder, the respondent being Mr. F. G. Walton, chemist and druggist, Parkgate, Darlington, who has been in business thirty-eight years. Mr. E. Wooler, who appeared for Mr. Walton (instructed by the Chemists' Defence Association, Ltd.), submitted that the Committee had no power to deal with the case, because the article concerned was a proprietary one, and could be sold only under the terms of the Proprietary Articles Trade Association. The Committee, however, decided to hear the case. The town clerk said that the complainant was charged 7½d. by Mr. Walton for a tin of Eucryl tooth-powder. On the package the price was marked 6d., but this price had been pencilled out. Mr. Walton had offered to refund 1½d. Mr. Walton had stated to him that the wholesale price was 6s. per doz. When the invoice was produced, however, it showed that Mr. Walton had paid 5s. per doz., yielding a profit of 50 per cent. The complainant, in cross-examination, said he knew that 7½d. was the proper price, but the tin of tooth-powder he bought was "old stuff." Mr. T. E. Wilson, Ph.C., stated in evidence that the wholesale price of Eucryl tooth-powder (small size) was 5s. per doz. A fair trade profit was 33½ per cent. on the turnover. In 1917 the retail price of the tooth-powder was 7d., and in 1918 the price went to 7½d. The article was not one likely to deteriorate in value owing to being kept. Mr. Wooler pointed out that Eucryl was a proprietary article, and that there was a very strong Association which prohibited a chemist from selling proprietary articles at a lower price than that marked in the Association's list. The price charged by Mr. Walton was quite correct, and the offering of the refund of 1½d. was made by Mr. Walton to prevent the complainant from creating a disturbance in his shop. "I never heard of a more frivolous or vexatious case in my life," said Mr. Wooler, "and the complainant actually went to the shop when it was full of customers and made charges against Mr. Walton." The chairman said that the Committee held that the Act applied to proprietary articles. The Committee was strongly impressed by the offer of Mr. Walton to make a refund of 1½d.; but, having regard to the fact that the Association dealing with proprietary articles substantiated the charge of 7½d. made by Mr. Walton, it was decided to dismiss the case.

**EALING.**—A sitting of the Profiteering Committee was held recently for the purpose of considering a motion to the effect that the Committee's previous resolution not to prosecute Mr. Arthur Armitage, chemist and druggist, South Ealing Road, for having charged 2s. 3d. for 6 oz. of cod-liver oil (*C. & D.*, April 24, p. 75) be rescinded. The mover of the motion explained that a recent decision of the Court of Appeal made it impossible

for the Committee to carry out its intention to prosecute Mr. Armitage for failure to comply with its order to 3d. should be refunded to the complainant. It was then to the Committee that its order should be carried out, and it seemed that the only way to proceed was to prosecute for profiteering. A letter from Mr. Armitage was read, informing the Committee that he had refunded 3d. in stamps; the stamps, however, had been returned. A member of the Committee suggested that it would not look well for the Committee to decide to prosecute for profiteering, when it had, fresh from the consideration of the facts weeks ago, decided that this was a case for prosecution. It would appear, he added, that the Committee was prosecuting for profiteering merely because its pride had been wounded by the discovery that it had less power in another direction than it supposed. The motion was eventually carried by 5 votes to five; and a further motion to prosecute was carried by seven votes to five.

**HAMMERSMITH.**—At a recent sitting of the Profiteering Committee, Palmer's Stores, Ltd., King Street, was ordered to refund 3d. on a charge of 2s. 6d. made for a tin of Allenburys' Food. It was stated that the price on the label was 2s. 3d.—At the same sitting a trader was ordered to refund 1s. on a charge of 3s. made for six Gillette safety-razor blades, which had been purchased by him before a rise in price.

#### Prosecution.

At Guildhall Police Court, London, on June 4, Millie Goldring (trading as M. Morgenstein), drug-store proprietor, 59 Middlesex Street, was summoned at the instance of the City of London Profiteering Committee for profiteering in the sale of a bottle of vaseline pomade (*C. & D.*, March 27, p. 71). Evidence of purchase having been given, Mr. Edward Day, chief accountant to the Cheshbrough Manufacturing Co., Holborn Viaduct, E.C., said that bottles similar to that sold to complainant were sold wholesale at 4s. 6d. per dozen. The protected retail price was 7d. a bottle. The size produced by the solicitor for the defence was sold at 8s. 4d. per dozen, and was protected to retail at 1s. a bottle. Cheshbroughs did not serve this store themselves. For the defence it was contended Mrs. Goldring was at Brighton on the day of the alleged sale. The magistrate was satisfied that the offence had been committed, and inflicted a fine of £2. 2s. costs.

## Coming Events.

#### Monday, June 14.

*Society of Chemical Industry, London Section*, Central Hse., Finsbury Square, London, E.C., at 5 P.M. Annual meeting.  
*Drug Trade Appeal Fund*, 110 Temple Chambers, Temple Ave., London, E.C., at 4 P.M. Annual meeting.

#### Wednesday, June 16.

*Bradford Chemists' Association*.—Summer outing to Burnshall Grassington by motor char-a-banc.  
*North Wales Federation*, Queen's Hotel, Rhyl, at 3.30 P.M. In. Hugo Wolff on "Business and Pharmacy."

#### Thursday, June 17.

*Chemical Society*, Institution of Mechanical Engineers, St. John's Gate, Westminster, London, S.W. Professor J. C. McLeod, F.R.S., Toronto University, on "Helium."

**SHEFFIELD PHARMACEUTICAL AND CHEMICAL SOCIETY.**—An excursion into Derbyshire will be made on June 24. All sections of pharmacy are invited.

**NORTH LONDON PHARMACEUTICAL ASSOCIATION.**—The annual meeting will be held on June 24, for which a motor run has been arranged. Tickets (14s. 6d. single, 28s. double, including high tea) from Mr. H. Skinner, The Dispensary, Great Northern Hospital, London, N.W. 7.

**THAMES VALLEY PHARMACISTS' ASSOCIATION.**—A motor trip to Windsor will be made on June 30. Tickets (including meeting at White Hart Hotel), 13s. 6d. each (for three, 38s. 6d.), from Mr. Alfred Higgs, 42 Richmond Road, Kingston-on-Thames not later than June 15.

**BRUNNER, MOND & CO., LTD.**, are allocating out of their profits for the year 100,000l. to be distributed to various universities or institutions for the furtherance of scientific education and research.



## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

**LAWES, G. E., LTD. (P.C.).**—Capital, 1,000*l.* Objects: To take over the business of a drug stores carried on by G. E. Lawes at 91 Wolverhampton Road, Heath Town, Wolverhampton. The first directors are: G. E. Lawes and F. W. Lawes. R.O.: 91 Wolverhampton Road, Heath Town, Wolverhampton.

**ROBERT MCBIRNEY & Co., LTD. (P.C.).**—Capital, 1,000*l.* Objects: To take over the business of pharmaceutical chemists and druggists carried on by R. McBirney as "McBirney & Co." at Newry Street, Kilkeel, co. Down, druggist. The first directors are: R. McBirney, Newry Street, Kilkeel, co. Down, druggist; Mrs. S. McBirney; and Mr. J. McBirney.

**BARNES & CROMPTON, LTD. (P.C.).**—Capital, 8,000*l.* Objects: To take over the business of a chemist and druggist carried on by H. Williams at 114A Fishersgate, Preston, and at Leyland, near Preston, as "Barnes & Co." The first directors are: H. Williams, Norfolk House, Longton, near Preston; E. H. Bentley, 14 Church road, Lytham. R.O.: 114A Fishersgate, Preston.

**LIQUID ICE Co., LTD. (P.C.).**—Capital, 99*l.* Objects: To carry on the business of manufacturers of and dealers in medicinal preparations and drugs, chemists, druggists, crystalisers, etc. The permanent directors are: W. C. Wade, 73 George Street, Plymouth, coal factor; A. H. Add, 16 Eastcheap, London, E.C., coal factor; and A. C. Wade, 73 George Street, Plymouth, coal factor.

**BOLTON & HUIZZARD, LTD. (P.C.).**—Capital, 1,500*l.* Objects: To carry on the business of drysalts, druggists, chemists, opticians, etc., and to acquire the business carried on by R. W. Bolton and J. W. Huzzard at Trinity Street, Gainsborough, as "F. W. Boon." The first directors are: R. W. Bolton, 88 Trinity Street, Gainsborough, chemist, and J. W. Huzzard, 88 Trinity Street, Gainsborough, optician.

**CHARLES L. HUSKING, LTD. (P.C.).**—Capital, 500*l.* Objects: To carry on the business of commission merchants, brokers, agents, factors, wharfingers, shippers, manufacturers of and dealers in drugs, chemicals, oils, spices, mineral waters, medicines, engineering, building, decorating, agricultural, surgical and other instruments, etc. The first directors are: C. L. Husking and J. A. Corson. R.O.: 47 Lime Street, London, E.C.

**H. F. NORMAN & Co., LTD. (P.C.).**—Capital, 2,000*l.* Objects: To take over the business carried on at Cockpit Hill Wharf, Siddal's Road, Derby, as "H. F. Norman Co." and to carry on the business of chemists, druggists, drysalts, oil and colour men, etc. The first directors are: E. T. Aspey (permanent managing director), Allsop, J. D. Metcalfe, and Mrs. M. J. Tinley. R.O.: Cockpit Hill Wharf, Siddal's Road, Derby.

**CARAVEL Co., LTD. (P.C.).**—Capital, 1,000*l.* Objects: To carry on the business of exporters and importers of chemicals, drugs, dyestuffs, textiles, steel, machinery, paper, raw materials and general merchandise, etc. The first directors are: H. Spinrad, Rubens Hotel, Buckingham Palace Road, S.W.; S. D. Hoffman, 60 Fort Washington Avenue, New York, U.S.A.; and H. Cooper, President Street, Brooklyn, New York, U.S.A. R.O.: 110 Cannon Street, London, E.C.

**VERNON POWELL, LTD. (P.C.).**—Capital, 4,000*l.* Objects: To carry on the business of manufacturers, porters, and importers of, agents for, and dealers in chemists' and druggists' sundries, toilet requisites, medical, surgical and electrical appliances, photographic sundries, etc. The permanent directors are: H. Powell, Bellevue Road, Southend; C. Powell, 14 Bellevue Road, Southend; J. J. Castle, 4 Canonbury Grange, Canonbury; and Miss K. B. Kendall, 35 Conewood Street, Highbury. R.O.: 9-10 St. Andrew's Hill, Queen Victoria Street, London, E.C.

**SYNTHETIC AMMONIA & NITRATES, LTD. (P.C.).**—Capital, 5,000,000*l.* Objects: To make, assist, promote, reward, and encourage any experiments, researches, investigations, inquiries, and inventions with a view to the fixation of atmospheric nitrogen and the manufacture of its derivative compounds on a commercial scale, or the improvement of the processes, appliances, or machinery employed for such manufactures; to equip and conduct experimental, atmospheric nitrogen, and manufacture, sell, and deal in its derivative compounds; to investigate, manufacture, and sell any other chemical product which can conveniently be investigated, manufactured, or dealt with in the company's laboratories or works, or in association with synthetic ammonia; to carry on business as chemical manufacturers, raisers, and suppliers of brine, sinkers of shafts, engineers, mine owners, lime burners, winners, and workers of minerals etc. The subscribers are to appoint the first directors. Solicitors: Blyth, Dutton, Hartley & Blyth, 112 Gresham House, Old Broad Street, London, E.C.

**VIROL, LTD.**—The directors recommend the payment of a dividend of 15 per cent. on the ordinary shares, the writing off of the expenses of the recent preference share issue, 8,566*l.*, and the carrying forward, subject to excess-profits duty (if any), 23,659*l.*

**BOOTS, LTD.**—It is now announced from New York that the proposed purchase of Boots Pure Drug Co., Ltd., by the United Drug Co., Boston, U.S.A. (*C. & D.*, June 5, p. 65), is complete. An American banking syndicate has arranged to finance the purchase of the British company, and will underwrite the stock issued of 1,500,000*l.* to the stockholders of the United Drug Co. In our reference last week to the deal the name of Mr. Louis K. Liggett was incorrectly given.

**THE "SANITAS" Co., LTD.**—The annual general meeting was held at the offices of the company on June 3, Mr. C. T. Kingzett, F.I.C., F.C.S. (the chairman), presiding. The chairman congratulated the shareholders on a satisfactory increase in the company's trade and profit, notwithstanding the continued difficulties of high cost prices of raw materials and the shortage in the supply of bottles during part of the year under review; he said also that several promising developments were under the consideration of the board. The balance to the credit of profit-and-loss account, including the amount brought forward from the last account, amounted to 39,012*l.* 5*s.* 9*d.*, and after payment of the dividend on the 9 per cent. cumulative preference shares and provision for income-tax there was an available balance from which it was proposed to pay a dividend of 10 per cent., free of income-tax, on the ordinary shares for the year ended March 31, 1920, leaving a balance of 2,811*l.* 11*s.* 7*d.* to be carried to next account.

**SYNTHETIC AMMONIA AND NITRATES, LTD.**—This company has been formed by Brunner, Mond & Co., Ltd., with a capital of 5,000,000*l.*, to take over from the Government the manufacture of nitrogen products from air, and to develop this manufacture on a commercial scale. The company is, by agreement with the Government, always to be British controlled, the directors are to be British-born, and the first directors are to be approved by the Government. The new company has taken over also from the Government the leading engineers and chemists who had been employed by the Government in the research work on the subject, and with these gentlemen as a nucleus has organised a staff of highly qualified scientists and technologists to carry out the work. Arrangements were made by which members of the staff were able to visit and thoroughly inspect the plant at Oppau, in Germany, where the Haber process has been worked out, and which had an output of some 250 tons of 100-per-cent. ammonia per day. Visits of the company's experts have also been made to the United States of America, where the Government plant at Sheffield, Alabama, and the General Chemical Co.'s plant at Laurel Hill, New York, were exhaustively studied. The experimental plant of M. Georges Claude at La Grande Paroisse has also been visited and inspected in operation. The experimental plant of Dr. Maxted,

of Gas Developments, Ltd., together with their information and patents, has been purchased for the company. In addition to this study of the present position of other synthetic processes, the company's staff has carried out a very thorough programme of research and design, and is now in a position to erect plant in the full confidence that the process chosen will prove to be superior to any now in existence. The process is essentially a modification of the Haber process, and was worked out entirely without German assistance. The company will, however, be protected by the Government against any interference by the Germans in the development of the process in England, and to this end has placed at the disposal of the company all enemy patents bearing on the process on a royalty basis. The payments under this arrangement are to go to the Custodian of Enemy Property for account under the reparation clauses of the Peace Treaty. The company intends to erect immediately at Billingham a plant for the manufacture of 100 tons of 100-per-cent. ammonia per day, with provision for a rapid extension to 300 tons per day, equal to 150,000, rising to 450,000 tons of sulphate per annum. Modern agricultural research has, however, proved that chloride of ammonia is equal, if not superior, to sulphate, and since, by converting the ammonia into this form, instead of into sulphate, carbonate of soda—soda ash—can be produced (a manufacture in which Brunner, Mond & Co. are pre-eminent), it is hoped that the agricultural community will eventually adopt this form, which can only have the effect of reducing the price to them of nitrogen fertilisers. Arrangements have been made with Explosives Trades, Ltd., by which they undertake to take their requirements of ammonia from the company and to erect plant to the extent desired by the Government for the oxidation of this ammonia to form nitric acid and the explosives derived therefrom. Thus the country's supplies of explosives for war purposes will be assured.

## Business Changes.

R. LANE-HALL & CO., LTD., chemical manufacturers and dealers, are removing on June 15 to 1 Steward Street, London, E. 1.

MR. A. MCKENZIE, chemist and druggist, has taken over the business of Mr. F. H. Blomfield, chemist and druggist, The Broadway, Bexley Heath.

S. B. PENICK & CO. INC., drug importers and exporters, 254-256 Front Street, New York, have opened a London office at Vulcan House, 56 Ludgate Hill, E.C. 4. Mr. A. L. Darville has been appointed manager.

J. F. MACFARLAN & CO., manufacturing chemists, Abbey-hill Chemical Works, Edinburgh, announce that Mr. Alexander Macdonald retired from the firm on May 31, and that business will be continued by Mr. David Rainy Brown on his own behalf.

MR. JAMES DOBSON, chemist and druggist, has acquired the business of Mr. Pelham C. Young, chemist and druggist, High Street, Hounslow, of which he has been the manager. Mr. Young, whose health has not been very good of late, has retired from business, and has taken up his residence in another part of the borough.

THE PARTNERSHIP between Mr. Joseph de Carle Smith and Mr. Richard Silcock Smith, wholesale druggists and manufacturing chemists, Magdalen Street, Norwich, trading under the style of Smith & Sons, has been dissolved by mutual consent. The business will be continued under the same style by Mr. Joseph de Carle Smith, who will be assisted by his son, Mr. Joseph de Carle Smith, B.Sc. (Lond.), A.I.C., F.C.S. The old partners passed the Qualifying examination of the Pharmaceutical Society in 1884 and 1889 respectively, and the present junior partner in 1915, after he had taken the degree of B.Sc. and had been elected a Fellow of the Chemical Society.

## Marriages.

BAGLEY-ROCH.—At St. Margaret's Church, Roath, Cardiff, on June 5, by the Rev. Sidney Roch, M.A., uncle the bride, assisted by the Rev. — Wellington, Thomas Bingham Bagley, Ph.C. (Bagley & Co., manufacturing chemists, Cardiff), to Isobel Mary, only daughter of the late Mr. J. O. Roch, Cardiff.

NICHOLLS-REEVE.—At the City Temple, London, E.C. 1, on June 1, Thomas Lawrence Nicholls, chemist and druggist, 18 Duke Street, Chelmsford, to Annie daughter of the late Mr. J. Stacey Reeve.

WALLICE-BULL.—At St. Gabriel's Church, Plymouth on June 2, Donald Wallace, B.A. (Cantab.), M.R.C.S. L.R.C.P., younger son of Mr. J. J. W. Wallace, "Ferleigh," Seaview Villas, to Stephanie Cecilia, only daughter of Mr. W. R. W. Bull, pharmacist, Hyde Park, Plymouth.

## Deaths.

AUSTIN.—At 62 Alcester Street, Devonport, recent Mr. William Hoskin Austin, Ph.C., aged fifty-four. Mr. Austin, who passed the Major examination in 1889, has been in business in Charlotte Street, Devonport, several years. He leaves a widow and a son.

JONES.—At Holywell, Flintshire, on June 2, sudden Mr. Samuel Jones, J.P., chemist and druggist, aged sixty-three. Mr. Jones served his apprenticeship to the late Mr. Michael Jones, Flint. After qualifying in 18 he acquired the business of the late Mr. F. E. Turner at Holywell, and carried it on till the time of his death. His wife predeceased him three years ago. Mr. Jones was an alderman of the Flintshire County Council and chairman of the board of management of the local schools. The funeral took place at Holywell Cemetery on June 5.

MARSHALL.—At Manor Road, Waltham Abbey, on May 19, Mr. Austen Marshall, chemist and druggist, aged seventy-one.

PARKIN.—At 5 Pierremont Crescent, Darlington, on June 1, Mr. William Wilton Parkin, for many years partner in Parkin, Ness & Co., manufacturing chemists, Skerne Mills, Darlington. Mr. Parkin joined the firm Mr. Thomas Ness at the Black Banks Chemical Works thirty-eight years ago, and retired last year.

WAKEFIELD.—At Harborne Road, Edgbaston, Birmingham, on June 5, the wife of Mr. John Wakefield, Ph.D. (Bellamy & Wakefield, chemists, Easy Row).

WINDEATT.—At South Avenue, Exeter, on May 25, George John Windeatt, chemist and druggist, aged eighty-six.

## Wills.

MR. THOMAS EDWIN ADAMS, chemist and druggist, 103 Rosebery Street, Liverpool, who died on February 1, left estate of the gross value of 1,183*l.*, with net personalty 800*l.*

MR. JOHN METCALF, Martholme Grange, Clayton-Moors, Accrington, chemical manufacturer, who died on December 14, left estate of the gross value of 13,860*l.* 17*s.* 3*d.*, with net personalty 11,973*l.* 5*s.* 2*d.*

MR. WALTER EDWARD PLANT, pharmaceutical chemist, 6 St. Mary's Road, Doncaster, who died on January 5, has left property of the value of 6,288*l.* 5*s.* 1*d.*, his net personalty being 912*l.* 5*s.* 6*d.* Probate is granted to Mrs. Plant, the widow; Thomas William Pitt-Baxtergate, Doncaster, draper, brother; and Robert Kinneer, Doncaster. He gives house property to his wife during widowhood, with remainder to his sons, Albert Cyril, Walter Gregory, and Frank Harold, and the residue to his wife for her life, and then for his children.



## Personalities.

MR. E. R. PRITCHARD, chemist and druggist, Criccieth, has been elected treasurer of the Criccieth traders' association.

MR. J. WYNN WILLIAMS, chemist and druggist, Mold, has been elected chairman of the local education sub-committee.

MR. F. W. CROSSLEY-HOLLAND, F.C.S., barrister-at-law and pharmacist, has taken the degree of Doctor of Civil Law by thesis.

MR. H. C. EDWARDS, chemist and druggist, Queen's Road, Hastings, has been elected a member of the committee of the local chamber of trade.

MR. R. ANDERSON, chemist and druggist, Chester Road, Sunderland, has gained both a first and a second place in recent competitions of the Wearside golf club.

COLONEL H. G. LYONS, D.Sc., F.R.S., has been appointed director and secretary to the Science Museum. Colonel Lyons held important positions in the meteorological services during the war.

MR. JOHN M. CULVERT, of the Lonabarc Trading Co., Ltd., 5 Finsbury Square, London, E.C., who has been with the Barcelona branch of the company for over a year, is returning to the London office next week.

MR. H. B. COOPER, who was Shirley Bros.' representative for over twenty years, has lately been demobilised, and will take up immediately his old ground, covering the West of England and South Wales.

At the meeting of Blackburn town council on June 3, Mr. W. H. Grimshaw, chemist and druggist, Blackburn, was the recipient of a striking tribute for his work in connection with the local food control committee.

MR. JAMNADAS J. MEHTA, managing proprietor of Jamnadas Bros., chemists and druggists, Market, Bombay, India, is at present on a business visit to this country. His will be followed by a trip to the United States.

UNDER the heading "Our Sir William's Work," the Wood Green Sentinel of June 5 contains a brief account of the recent settlement in the drug-workers' strike recorded in the *C. & D.*, May 29, p. 58). The account reads: "Do you notice how powerful unions of manufacturers are getting and what first-class 'brains' they are employing?"

MR. G. E. NORRISH, chemist and druggist, until recently a district representative for Boots, Ltd., in the London area, was presented with a solid-silver tea-service, subscribed for by members of the staff, at 182 Regent Street, London, W. 1, on June 9. The presentation was made by Mr. Percy Sparks. Mr. Norrish is now in charge of Messrs. Boots' new shop at Ventnor.

It is anticipated that, owing to continued ill-health, Mr. J. Rymer Young, Ph.C., Warrington, who was recently re-elected to the Council of the Pharmaceutical Society, will retire from the Council shortly. The announcement has not been made officially, but when it is made it is anticipated that Mr. Herbert Antcliffe, Sheffield, who was eighth on the list of candidates, will be elected.

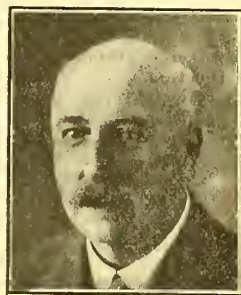
Among the recipients of honours in the King's birthday list are (in addition to Mr. W. H. Veno): Mr. John Henderson Stewart, J.P., chairman of Sorbo Rubber Sponge Products, Ltd., who has received a baronetcy; Mr. William B. M. Bird, founder of the Salters' Institute Industrial Chemistry, who has been made a knight; and Mr. Henry A. Wickham, "the father of the rubber plantation industry," who also has been knighted.

MR. GEORGE E. MARFITT, wholesale and retail chemist, Farnley Square, Leicester, celebrated his silver wedding on June 3. Mr. Marfitt won a gold medal (the second prize) in a window-dressing competition recently held in London. Last year he won the silver challenge cup given for first prize (*C. & D.*, 1919, p. 450); this year he was narrowly beaten by Mr. Willson (Kodak, Ltd.), Vice-president of the British Association of Display Men.

IN Convocation at Oxford, on June 1, the title of professor was conferred on Dr. T. R. Merton, Balliol College, for so long as he continues to hold the office of Reader in Spectroscopy. The proposer of the decree (the Warden of Wadham) said that it constituted a proper recognition by the University of a new study which Dr. Merton had made especially his own. He was one of the most distinguished spectroscopists in England, and probably in the world.

MR. E. PRESTON, Ph.C., President of the Sheffield Pharmaceutical and Chemical Society, who has been appointed an examiner, is an old "Square" student, having completed his studies in Bloomsbury by passing the Major examination in 1911. For several years he has been lecturer on chemistry, materia medica, and pharmacy at the Sheffield Education Committee's secondary school. He is also a member of the British Laboratory Ware Association. A portrait and biography of Mr. Preston appeared in the *C. & D.*, 1919, p. 663.

MR. S. MASSEY, who was elected President of the St. Vincent Association at the recent annual meeting of that society, is a native of Featherstone, Yorkshire, and served a five years' apprenticeship to Mr. W. Bratley, chemist and druggist, Pontefract. He was subsequently with Long & Sons, Brighton (for five years), Cooper & Co., South Kensington (for seven years), and Oppenheimer, Son & Co., Ltd., Queen Victoria Street, London, E.C. (for twelve months). For the past twenty-five years Mr. Massey has been the West-End representative of Meggeson & Co., Ltd., Llewellyn Grove, New Church Street, Bermondsey, S.E. 1.



MR. S. MASSEY.

MR. WESLEY W. HARRISON, chemist and druggist, 20 Walpole Gardens, Turnham Green, has sent a spirited letter to the borough surveyor of Chiswick calling attention to the recurring damage done to the basement of his premises by sewer-flooding. The following is an extract: "Last night I spent 2½ hours in the sewer water trying to save my stuff. This meant that my business was suspended for that time, and, I repeat, this is the third time in twenty months. You tell me—and I suppose you wish me to believe you—that it is absolutely impossible to prevent it: that it is an 'act of God.' . . ." The letter appears in full in the local Press.

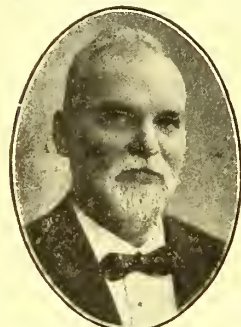
ALDERMAN A. S. CAMPKIN, Past Grand Master of the Manchester Unity Lodge of Oddfellows, was one of the principal speakers at the recent conference of the Lodge, held at Leamington. On the question of increased payment for medical service, Alderman Campkin said that it must be admitted that the medical side had received liberal consideration. As one who had assisted in the early formation of a better principle years since, he still felt there was one body which had received by comparison scant recognition for important and responsible service in the supply of drugs and medicines; he alluded to the pharmaceutical service in populous localities and centres, and did so in no personal sense, but simply in a representative character, based upon wide and national administrative experience, and as a member of the Pharmaceutical Council.

MR. GEORGE F. GODSON, chemist and druggist, Old Basford, Nottingham, the new President of the Nottingham Pharmaceutical Association, is a Lincolnshire man, and was apprenticed with Mr. D. S. Wark, Ph.C., Lincoln. He passed the Qualifying examination in 1900, after studying under Messrs. Graves and Turner at the Sheffield College of Pharmacy. After a few years as manager to Mr. Fred Coates, Old Basford, he succeeded him in business in 1910. Mr. Godson has always been keenly interested in the working of the National Health Insurance Act, and has been a member of the Nottingham Pharmaceutical Committee since its formation. The new President has



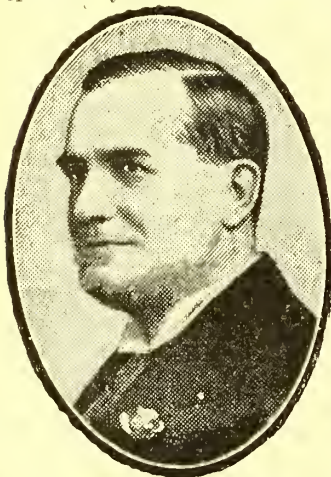
exceptional powers of organisation, which should prove of great value in directing the affairs of the Association. Mr. Godson is a Ucalite, and enjoys a lucrative dental practice in addition. He is also a Freemason, a churchwarden, and a lover of billiards and bowls.

MR. JOHN WYLDE, J.P., chemist and druggist, senior partner of Thomas Keating, Union Street, London, S.E. 1, was on June 4 presented with his portrait in oils, subscribed for by the staffs of Thomas Keating and of John Wyld, in celebration of his business jubilee. The occasion was marked by a dinner of the combined staffs, held at the Holborn Restaurant, W.C. The cordial relations existing between the firms and their staffs were further emphasised by the presentation of a bouquet to Mrs. Wyld. An excellent concert followed the dinner, and during the evening a small souvenir in gold was given by Mr. Wyld to each of the staff, in order to commemorate what was for everyone present a very happy and successful function.



MR. J. WYLDE, J.P.

SIR WILLIAM HENRY VENO, whose name is in the list of Birthday Honours published since our last issue, is governing director of the Veno Drug Co., Ltd., Veno Buildings, Manchester. Some years ago Mr. Veno (as he then was) went to the United States from Scotland, his native country, and studied medicine, subsequently touring the country with lectures on health and kindred topics. He then came to England and placed Veno's Lightning Cough Cure and the other specialities of the company on the market. A leading exponent of up-to-date advertising, especially in the North of England, Mr. Veno is President of the Manchester Column Club,



SIR W. H. VENO.

the members of which are advertising experts. Two years ago he was presented by the committee of the club with his portrait in oils. He is a freeman of the City of London.

**A CONUNDRUM.**—"When is a precipitate not a precipitate at all?" said the wag at a school of pharmacy the other day, after a north-easterly interview with the principal in regard to chemical procedure. "A precipitate," he replied for himself, thoughtfully shaking a densely clouded test-tube, "is not a precipitate when the Old Boy says it is not!"

**PETROL SUBSTITUTES.**—Tests with a mixture of alcohol and benzol as a substitute for petrol in driving motor-vehicles have lately been made, and further tests are to be carried out with mixtures of alcohol and ether. The efficiency of a mixture of equal parts of alcohol and benzol, compared with that of petrol, was found to be as 12.5 to 15. The cost was one-fifth of a penny per mile less with petrol than with the mixture. Another consideration has been to overcome the effect of the acid from the mixture on the pistons, and satisfactory use in this direction has been made of an addition to the mixture of ammonium nitrate.

## Trade Notes.

**ERASMIC ADVERTISEMENTS.**—A useful suggestion for utilising the artistic advertisements of Erasmic goods as window attractions is made in this issue by Erasmic, Ltd. Warrington.

**CELLULOID CAPS** for jars and bottles are advertised in this issue by the Centuple Manufacturing Co., Western Road, Merton Abbey, London, S.W. 19. Samples and quotations will be sent on application.

**B. W. & Co.'s PRICES.**—The alterations for May in the trade-list prices of Burroughs Wellcome & Co. are given in this issue. The method of arriving at the minimum selling prices to the public should be noted.

**ROSINE AND DE LUZY.**—In the advertisement of W. H. Calnan & Co., 30-32 Ludgate Hill, London, E.C. 4 referring to Rosine and De Luzy perfumes, the Italian word "Avanti" used as a heading on June 5 was misspelled.

**JAY MACK'S LEDGERS.**—An advertisement in the Coloured Supplement announces that a new edition of Jay Mack's Ledger is now ready. The new ledger cost 21s. post free. A few odd sets of the three-year ledger are still obtainable. These are suitable only for repeats as they do not contain the instructions. Chemists who want these should order at once.

**ENGLISH-MADE CHLOROPHYLL.**—We have received sample of chlorophyll made by William Ransom & Son Ltd., at their laboratory at Hitchin. This we have examined physically and chemically, and can pronounce to be of excellent quality. The sample has a good color and even consistence, the ash content being 3.96 per cent. There is no evidence whatever of the presence of an artificial colouring matter. Messrs. Ransom are prepared to send samples and quotations to wholesale and export buyers.

**SPANISH THYME.**—Mr. H. Ruback, 59 Mark Lane, London, E.C., has just received from Spain specimens of the actual plant which yields the oil of thyme, used by him for the manufacture of thymol, and these now await classification. Mr. Ruback believes that these specimens are the first to be seen in England, and he will be pleased to show the plants to interested parties. Spanish thyme-oil was previously understood to contain phenols which were essentially carvacrol. Since Mr. Ruback started the manufacture of British thyme the existence of Spanish thyme-oil containing phenols which are thymol and not carvacrol has been proved beyond question.

## Information Department.

### INFORMATION WANTED.

- |  |  |
|--|--|
| A/86. "Wonder Mist" and spray                          | D/76. "Forget Me Not" brand Union Jack paste |
| A/86. Horsley's wax                                    | M/76. Herring's magnetic hair brushes        |
| F/86. Reynold's gout remedy                            | H/76. "Depiline"                             |
| D/46. "American Fluid" (English & Co.)                 | H/76. "Curlova"                              |
| D/46. Tonic tablets (Variane)                          | B/76. "Thiodotoxyl"                          |
| P/16. Ground dried acid sulphate of soda; supplies     | W/76. "Abon" veterinary medicine             |
| K/36. Hockin's preparation for making Seidlitz powders | S/46. "Quies," for wax in the ear            |
| R/46. "Aperione"                                       | E/96. "Ideal" marking ink                    |
|  | E/96. "Mechis" strop past                    |

### INFORMATION SUPPLIED.

- |  |                                   |
|--|-----------------------------------|
| Binn's nit combs, C/145                | "Metamaphors," E/234              |
| "Bisuroids," SG/93                     | "Mexican" hair restorative D/133  |
| Blossers' (Dr.) remedy, S/144          | Orchard's cure for deafness T/113 |
| "Cosmos" stropping machine, B/204      | Proflavine, P/55                  |
| Grimault's stramonium cigarettes, H/35 | "Prophylactio" tooth-brush M/234  |
| Hermatine tablets, SG/93               | "Rough-on-Rats," M/234            |
| Himrod's asthma cure, M/234            | Trimethol tablets, SS/43          |
| "HiPi" mutton essence, E/234           | A/103                             |
| Kneading machines, HS/175              | Woodcock's wind pills, K/11       |
| Kola tonic, WB/145                     |                                   |



## Observations and Reflections.

By Xrayser II.

### Welcome the Coming,

speed the parting President. Mr. urrie retires well satisfied with himself, and we are well satisfied to see him retire. He is succeeded by a stronger man than himself, which, in itself, is also well. For the best we shall judge Mr. Nethercoat as President by his conduct in the chair; he is still a young man—young enough to learn, at any rate—and he appears to have a "fairly" modest opinion of himself. Neither he nor Mr. Nethercoat is the man I should have chosen as a titular head, but office will perhaps chasten the exuberance of the latter, and Mr. Nethercoat has always shown a sense of responsibility. Whether by accident or design he struck the right note in saying that he should strive to uphold the "dignity of the chair."

### The Council Meeting

of June 2, in addition to ordinary routine business, had before it two matters of the very gravest importance—the promised June revision of Insurance dispensing terms and the Dangerous Drugs Bill. At the last conference on Insurance matters we were recommended to accept the terms then offered, on the understanding that we might "reopen the case" in June 1920. We did accept them on this understanding, only to find, now that time has come, that the Minister of Health was no party to it. Who is responsible for this misunderstanding and for keeping us in blissful ignorance of it? It transpired, we are told, "subsequently," but when? How long has the Local Associations Executive been aware of it? I may be told that it doesn't matter, since we have been allowed, meanwhile, to bind ourselves to an acceptance of present terms. I do not, however, think the trade will take that view. We have been kept for six months in a sort of paradise, and this, for some time at least, with the knowledge of those who led us into it. Even now the Council dares not discuss the matter openly. It is, we must hope, doing its best to remedy the blunders of its instrument, but the secrecy of its action is the measure of its incompetence, as of our confidence in it. Never again must we entrust our fortunes as Insurance dispensers to the L.A.E.

### The Dangerous Drugs Bill

gives almost equal occasion for anxiety. Mr. Skinner might well say he could not quite tell what the recommendations of the Committee with regard to it are. When we are told that the Home Office should be asked to accept an amendment providing the right of a pharmacist or corporate body legally entitled to keep open for the sale of poisons to dispense," we may presume, since this right is already provided in the Act of 1868, that it is provision for safeguarding that is intended, but it is pretty evident that the Committee is as uncertain what further steps are necessary for our protection as it is unable to express itself accurately. To tell us that this measure calls for "the earnest and careful attention of all pharmacists," that we are faced with the gravest possible perils if it goes through," is mere twaddle. As if we did not know it! As if it were not we—that is to say, our representative, the L.A.E.—that first called the Council's own "earnest and careful attention" to the matter! The question is, What is the Council doing, or proposing to do? One of its most important and intelligent members says he does not "quite see"; Mr. Campkin adds a pertinent remark on the want of action of our Parliamentary "representative," and, in fine, we are all very much in the dark, and the Council is waiting, as its secretary says, for such proposals as we in this obscurity "are able to make."

### The Question Asked

by Mr. Gibson at the general meeting acquires new significance from the suggestion in the Interim Report of the Consultative Council of the Ministry of Health. It seems to be implied in the Report that some special qualification may be demanded of those who are entrusted

with laboratory work, and that this may be of the kind provided for by the proposal of three additional subjects to the Major examination. The secretary, in his reply to Mr. Gibson, was not very lucid. He first said that when the new qualification is set up it will give those who take it no position in law in preference to those who do not, and afterwards that it would be illegal for those who do not possess this qualification to do the things which the new legislation prohibits. If this means that only Major men can do these prohibited things, it may also mean that the qualification would be of no practical use to any but Major men, a sufficient reason, perhaps, for restricting it to them, but I do not understand precisely what it does mean, and further explanation seems necessary.

### The Evils that Beset Us,

serious as we sometimes think them, are almost insignificant beside the catastrophe that threatens our Irish brethren. They are in the position of the victim of the pendulum in Poe's tale. Already the knife that is to cut them in two is visibly swinging overhead, and daily drawing nearer, while they are still apparently without means of escape from it. They are, indeed, fortunate in having so alert and sage a counsellor as Mr. W. C. Meeke, and it can scarcely be but that some way of salvation will ultimately be found for them. Meanwhile the temper in which they discuss the problem of their future is admirable, and in marked contrast with the excitement we have seen displayed on this side of St. George's Channel in the face of a very minor crisis. One would almost conclude that Mr. Bernard Shaw is not indulging in paradox, but speaking the sober truth, when he says that John Bull is the emotional, hysterical person and Pat the cool, controlled, commonsensical man.

### The Perversity of Ingenuity

in misunderstanding an opponent could not go further than Mr. Ridyard carries it. To have italicised the phrase I borrowed from him would have seemed to me an insult to his intelligence, but he forces me to do it. I do not want a trade union "apart from and in addition to" the L.A.E., but (as I said) one that will "supersede it altogether." Could words be plainer?

### Two Circulars

relating to Insurance dispensing have reached me within the last few weeks, which illustrate in different ways the free-and-easy treatment we receive from "Them as is above us." The first, from the County of Middlesex Insurance Committee, is dated April 26, and informs me, among other things, that "as from April 1 last" neither capsicum wool nor thermogene will be paid for. If there has been any misconception of the terms on which these commodities are supplied, why has the Committee's ruling not been made known to us before? Virtually a month has gone by since it was arrived at. The other circular is from the Ministry of Health. It notifies me of the scale of charges for homœopathic prescriptions drawn up in consultation with the Pharmaceutical Society. To criticise charges thus agreed upon would savour of *lèse majesté*, but I heartily hope these prescriptions will not come my way, and I suggest that the Ministry of Health should be instructed how to spell *homœopathic*. In this circular three attempts are made, but they are all bad failures. I presume that the Ministry is staffed by allopaths.

### The Internal Use of Iodine

in large doses is no new thing. Rennie directs iodine pills to be made of the strength of from gr.  $\frac{1}{2}$  to gr. iv.; Lane ("Compendium," 1851) says from gr.  $\frac{1}{4}$  to gr. iv.; tinct. iodinii co. was officially prescribed in doses of from m.x. to 3j.; and the Dublin tinct. iodinii (gr. xl. to 3j.) in doses of from m.x. to m.l. It is worth noting that burnt sponge was official with us until 1836, and was given for scrofulous disorders in electuaries, in doses of from 5j. to 3ss. After the discovery of iodine by Courtois in 1811 Coindet (born at Geneva, graduated at Edinburgh) found it in burnt sponge, and was the first to use it in medicine.

# "SANITAS" DISINFECTANTS

FLUIDS, POWDERS, SOAPS & FUMIGATORS

Should be stocked by all Chemists.

THE "SANITAS" CO., Ltd., Limehouse, LONDON, E. 14

## S.V.R. — S.V.M.

AND

CHEMISTS' WINES.

Jas. Burrough Ltd. D.1 Cale Distillery, Hutton Rd.  
LAMBETH, S.E. 11.



Wilcox, Jozeau & Co.

49 HAYMARKET, LONDON, S.W.

Export and other Buyers should apply for a List.  
Foreign Prescriptions dispensed for Pharmacists.

## PETROLEUM

For Pharmaceutical  
& Technical Purposes.



WE can give immediate delivery  
of all qualities and varieties of  
petroleum for medicinal and for  
manufacturing purposes.

Inquiries are invited for special  
varieties.

MEDICINAL LIQUID PARAFFINS.  
WHITE TOILET PARAFFINS.  
TECHNICAL WHITE OILS.  
BRILLIANTINE OILS.  
PETROLEUM JELLIES,  
HARD PARAFFINS.  
SPRAY OILS, SLAB OILS, Etc.

Samples and Prices Forwarded Promptly on Request.

THE W.M. BROWNING Co. Ltd.,  
Albert Works, Park St., LONDON, N.W.1.

Telephone: Hampstead, 4046.

TELEPHONE MAYFAIR 5015 (4 lines)

MEMO. NO. 14.

JOHN BELL & CROYDEN, LTD.  
50 WIGMORE ST., W. 1.

are again enlarging their

MEDICAL and SCIENTIFIC GLASS-BLOWING  
DEPARTMENT

in an endeavour to expedite delivery of the  
continually increasing orders of their customers.

TELEGRAMS: CROYBELACO, WESDO, LONDON.

"Perborin" Brand

## GLUES & GELATINES

CREAM OF TARTAR  
AND SUBSTITUTES

Heavy and Fine Chemicals. Colours.

PRESCOTT & CO.,  
Hulme.

Rutland Mills,  
Manchester.

## MEDICINAL CAPSULES

TO THE TRADE ONLY.

ACTUAL MAKER " ESTABLISHED 25 YEARS.

Inquiries solicited.

D. W. BULL, 4 Churchill Road, HOMERTON, E.9.

## Editorial Articles.

### Medical Services Report.

SOME misunderstanding has been caused by certain remarks which we made last week when dealing with the report of the Consultative Council on Medical and Allied Services. In our desire that the claims of pharmacy should not have been neglected we intended to express a hope that the chemists' representative had been able to devote his mind to the matter and had had a full opportunity of making his influence felt in a Council which is mainly concerned with medical interests. We expressed this in a way that has been misinterpreted. We are informed that Sir William Glyn-Jones was appointed a member of the Consultative Council as representative of the Pharmaceutical Society, and that he attended at least seventeen meetings of the Council, each occupying the whole day. We must assume, therefore, that the influence he was able to exert was fully shown in the extracts from the report which we published last week. We hope to be able to give full abstracts of the report so soon as our space allows, but in the meantime we may mention that it was with a view of providing skilled assistants in the clinical laboratories which it is recommended should be set up under the Health Services that the scheme of modifying the Major examination (C. & D., May 8, p. 55) was devised. As the scheme was drafted before the report of the Consultative Council was made public it was



possible to state all the reasons for putting "or" in the modified syllabus for the Major examination. It is now to be stated that the expected future demand for assistants in the laboratories established at Primary Health Centres is within view of the Consultative Committee's opinion that "it is a matter for consideration whether, in certain cases at any rate, such individuals might not be able to perform the duties of the pharmacist with those of the laboratory assistant." To many people this will throw light on what appeared to be an inexplicable tampering with the Major syllabus, and it may, on further consideration, be sufficient justification for the proposed change in the subjects of examination. This week the Welsh Consultative Council has issued a report on the Medical and Allied Services in Wales. Among the points of interest to the members occurs that of Mr. Leo Joseph, chemist and druggist, Past-President of the South Wales Monmouthshire Pharmacists' Association. The report submits tentative schemes for medical service to be provided under the conditions in Wales. Pharmacy occupies but a small space in the report. The only paragraph dealing with the subject is the following:

**Dosage and Prescriptions.**—The Council have deferred the present consideration of questions relating to the supply (whether in relation to the pharmacist or to the medical practitioner), as well as the important question of the purity and quality of drugs; but they desire at once to state the view that extra nourishment, on the prescription of a doctor, should form part of the domiciliary treatment provided under the new Health Service.

It is to be hoped that the chemist on the Council will be able to get in a reminder that the purity of drugs is already amply provided for, so far as chemists are concerned, by the Sale of Food and Drugs Acts and the Merchandise Marks Act. In regard to dentists, it is stated that a minimum provision, "provided they are available," would probably be one to 4,000 of the population. As the population of Wales is about 2,000,000, it would be needed 500 dentists. If the same proportion is necessary for England and Scotland there would need to be considerable accretions to the Dentists' Register.

### The Platinum Market.

Some weeks past quotations for platinum have been very divergent, at between 24*l.* and 23*l.* per oz. for virgin metal, but in the absence of notable business or sufficient demand prices are nominal, and any sales are a matter of negotiation, the same facts applying to refined platinum, which is particularly depressed, as the price of virgin metal suffered a severe reduction, representing 12*l.* 10*s.* per oz., from the figure current in the market last. The weakness in the United States market has likewise been very pronounced, and originated from the liquidation of the U.S. Government surplus stocks. When the New York price stood at about \$150 per oz. early in February there was a certain amount of virgin metal put on the market by munition-makers, and although this inevitably speeded up further reductions in the price, the view was rather prematurely held that the market would not break much further, because of the considerable domestic requirements, but the demand having been held up by the protracted strike in the jewellery industry, the price has since recovered another 33 per cent. or so, while current quotations are wide at about \$95 to \$110 per oz. Assuming the value to be roughly \$100, the equivalent of this, on the current rate of exchange, would be still

well above our nominal quotation of, say, 23*l.* per oz. It is believed that a fair portion of the American surplus is now in dealers' hands, and they apparently believe that it would not take much of a revival in the usual trade demand to steady the market, and, perhaps, bring about a recovery. So far as London is concerned, refiners have undoubtedly a fair surplus to dispose of, but they are ostensibly in no particular hurry to do so, on the idea that users will sooner or later be forced again into the market. The outlook, having regard to future supplies from producing countries, is considered very obscure, and not altogether reassuring, while it is apprehended that consignments from Russia will not amount to a great deal for some time, although the possibility of the resumption of commercial relations with Russia later in the year would presumably facilitate the accession of new supplies from the Urals. In the meantime it is well known that the Russian output has been comparatively small in recent years, chiefly on account of the dislocation entailed by the war and the subsequent severe internal troubles. Moreover, the production in Columbia, although its development has been quite satisfactory in recent years, is not sufficient to provide by a long way for the requirements of the United States. So far as can be ascertained, the bulk of the Columbian output is roughly estimated at 35,000 oz. per annum, while American consumption is said to be several times that amount, although the saving of platinum scrap of all classes has resulted in much larger recoveries of secondary platinum metal than in recent years. While such recoveries in the United States represented some 48,000 oz. in 1916, this amount since has apparently been increased by more than 50 per cent. The domestic output of virgin metal is only small, being estimated at about 1,000 oz., which is secured as a by-product in California and Oregon. The production in Russia prior to the war, at its best, was not much less than 250,000 oz. per annum, although the official returns were seldom in excess of 200,000 oz.; these returns were, of course, based on the quantities which were actually accounted for through the State Tax Office, and, therefore, did not include the very considerable quantities which were marketed privately and in such way as to evade the State tax. During the revolutionary troubles considerable quantities of the metal were smuggled out of the country by the Bolsheviks, which were eventually diverted to America and elsewhere *via* Scandinavia, and Germany also managed to secure important supplies, which were essential for her technical laboratories in connection with war operations. Reserve stocks in Germany are now said to be exhausted, according to a recent official communication made by the War Department to research establishments and laboratories, and the same is reported in regard to Austria. Estimates of production in Russia in the last few years are pure guesswork, while the yield for last year was possibly between 30,000 oz. and 40,000 oz. Judging from a recent report in the Continental Press, to the effect that some 9,000 oz. had been sold for despatch to the Far East, there is not much doubt that fair stocks are held in Central Russia. Incidental to the financial crisis in Japan, the price of platinum there was severely affected, inasmuch as some eagerness was displayed to resell the parcels which have been reaching that country, and had been purchased in foreign markets, owing to the complete interruption of consignments through Siberia. The fact may be recalled that prior to the war the price here was rather below 10*l.*

per oz., and that in New York stood at about \$45. The demand in this country is still very slow for the usual trade purposes, and until it shows some improvement the current price of about 23l. per oz. may be reduced, under present adverse financial conditions.

### Reall Travel.

THE retail agents, in this country, of the United Drug Co., of Boston, U.S.A., have received an invitation to be present at the Rexall Convention, which will be held at St. Louis, Missouri, from September 28 to October 1. The total expense of the trip from Liverpool to St. Louis and back is estimated at 200l. per person, this sum including steamer and railway fares, hotel rooms and meals, and sight-seeing tours in the various cities visited. The British party is to travel together, and sailings have been reserved on steamers leaving Liverpool about September 10. Mr. Louis K. Liggett, President of the company, sends a message, "We'll give you the very best, the very happiest and most profitable vacation that you ever enjoyed in all your life." The Liverpool management, who send out the circular from which we quote, finish up with the sentence, "Come with us—hang the expense." The excursion is certainly an excellent "boost" for the American company, which probably will soon include the Boots' organisation in this country.

### Society Subscriptions.

As an indication of the upward trend of subscriptions to associations may be mentioned the recommendation of the Council of the British Medical Association that the annual subscription be raised from two to three guineas. The amount which the members paid up to 1903 was 21s., when the subscription was increased to 25s., in 1913 it was raised to 2l. 2s., and now a 50 per cent. increase is proposed. The reasons for this step are heavier costs of printing and publishing the "Journal" and increased salaries and other expenses of the Association. The British Medical Association estimate that in a membership of 22,200 there will be a drop of 2,200, but the increase in revenue of 13,000 guineas is anticipated, which should not only make both ends meet, but enable a reserve fund to be built up. The Council of the Chemical Society have also seriously considered the financial position of the Society, and have come to the conclusion that it is necessary to increase the amount of the annual subscription. The present amount is 2l., and it is suggested that this shall be 3l. from January 1, 1921. A fresh scale for life compounders is to be introduced, which takes into account the number of annual subscriptions that have been paid by those who desire to compound. As a proposition to raise the annual subscription of the members of the Pharmaceutical Society is likely to be made soon it is interesting to call attention to this move.

## Gazette.

### Partnership Dissolved.

BOOTHROYD, J. H., and TALBOT, A. D., 75 Wellington Road, Eccles, perfume manufacturers, under the style of Boothroyd Bros. & Co.

WATTS, A. G., WOLSEY, W. E., and PUDDIFOOT, W. T., 122 Petherton Road, Clissold Park, London, N., perfumers and toilet specialists, under the style of The Parkside Manufacturing Co.

SMITH, J. DE CARLE, and SMITH, R. S., Magdalen Street, Norwich, wholesale druggists and manufacturing chemists, under the style of Smith & Sons.

EVANS, J., and STEVENSON, J. T., 67 and 69 Surrey Street, Sheffield, analytical and consulting chemists, under the style of A. H. Allen & Partners.

## Chemists' Retail Price Lists

### Philip's "Standard" Retail Price List.

The following are among the alterations and additions in the current issue of Philip's "Standard" Retail Price List: *Drugs*.—Acid. acetic. glac, 5d. oz.; adeps ben 4½d. oz.; adeps lanae hyd., 3d. oz.; alum. exsicc. pulv., 3½d. oz.; amidol, 1s. 10d. oz.; amyl acet. coml., 6d. oz.; antim. nig. pulv., 2d. oz.; caffein. cit., 1s. 1d. dr.; chloroform, 3d. dr.; collod. flex. meth., 7d. oz.; ess. an. 1 in 10, 4d. dr.; hydrargyrum, 10d. oz.; hyoc. quinone, 1s. 6d. oz.; lin. aconiti meth., 5½d. oz.; chlorof., 1s. oz.; lin. methyl sal., 1s. 6d. oz.; lin. sap. meth., 4d. oz.; menthol, 1s. 6d. dr.; ol. anfygdal. p. ang., 6d. oz.; ol. anisi, 2½d. dr.; ol. morrhuae nov. o. 3½d. oz.; ol. olivæ sublim., 4½d. oz.; ol. ricini opt., 3d. oz.; ol. ricini sec., 2½d. oz.; ol. sesami, 3d. oz.; pot. cyanid., 40 per cent., 9d. oz.; pulv. glycyrrh. co., 3½d. oz.; saline efferv., No. 1, 4½d. oz.; sodii cit., 10d. oz.; camph., 1s. oz.; sp. chlorof., 8d. oz.; syr. ferri phosph. co., 4d. oz.; syr. ferri phosph. c. quin. et strych., 5d. oz.; syr. glycerophos. co., 6d. oz.; syr. hypophos. 5d. oz.; syr. rhamni, 4½d. oz.; syr. rhei, 5d. oz.; scillæ, 4½d. oz.; syr. seunæ, 5d. oz.; syr. tolu., 5d. oz.; syr. violæ, 4½d. oz.; ung. gallæ c. opio, 9d. oz.; t. hydrarg. ammon., 6d. oz.; ung. resinæ, 5d. oz.; i. sulph., 4d. oz.; ung. zinci, 3½d. oz.; zingib. pulv., No. 4½d. oz. *Goods Sold by Pint, etc.*—Ol. olivæ sublim. 5s. 8d. pint; ol. sesami, 3s. 9d. pint; sp. vini med. 14s. 4d. gall., 1s. 10d. pint. *Packed Goods*.—Chem. food, 3-oz. bot., 1s. 2½d., 6-oz. bot., 2s. 1d.

### London Chemists' Retail Price List.

The following are among the alterations and additions in the current issue of the London Chemists' Retail Price List: *Drugs*.—Acid. carbolic. coml., 3d. oz.; acid. tannic., 4d. dr.; acriflavine, 1s. gram; adeps benz., 5d. oz.; adeps lanae hyd., 4d. oz.; amidopyrin, 1s. 8d. dr.; argent. colloïd., 3s. dr.; arg. protein., 10d. dr.; atropin. sulph., 6d. gr.; bism. salicyl., 6d. dr.; butyl chlor. hyd., 2s. 10d. dr.; caff. cit., 1s. 1d. dr.; calc. glycerophos., 5d. dr.; calx chlorin., 2d. oz.; collod. flex. meth., 9d. oz.; collod. salicyl., 3d. dr.; creosot. carb., 1s. 3d. dr.; crocus stig., 5d. 10. eau de Cologne, extra, 2s. 8d. oz.; ess. menth. pip. e. 1-10, 5d. dr.; ferri et quin. cit., 8d. dr.; glycer. ac. morph., 7d. oz.; hydrargyrum, 1s. oz.; hydroquin. 1s. 11d. oz.; iini contus. opt., 1s. 6d. lb.; lin. methyl. co., 2s. 2d. oz.; lin. terebinth., 7d. oz.; menthol, 1s. 1d. dr.; menthol snuff, 5d. dr.; ol. anisi, 3d. dr.; ol. lava., 10d. dr.; ol. limonis, palermo, 4d. dr.; ol. olivæ sublim., 5d. oz.; ol. olivæ, No. 2, 4d. oz.; plumbi acet. pur. p. 3d. oz.; pot. carb. pur., 6d. oz.; quin. hydrochl., 2s. 7d. dr.; saccharin, 550, 1d. gr., 3s. 7d. dr.; sacch. lact. p. 5d. oz.; 5s. 4d. lb.; sennæ fol. alex. elect., 7d. oz.; sennæ fol. tinnev. opt., 5d. oz.; sennæ fruct. alex. opt., 10d. oz.; tinct. arnicæ, 8d. oz.; tinct. capsici, 8d. oz.; tinct. H. mitis, 11d. oz.; tinct. myrrh., 1s. 2d. oz.; tinct. q. ammon., 9d. oz.; tinct. zingib., 11d. oz.; ung. hydrarg. mit., B.P.C., 9d. oz.; ung. hyd. ammon., 6d. oz.; 3. resinæ, 7d. oz.; ung. sulphuris, 5d. oz. *Med. Supplies*.—Calf lymph, 9d.; oxygen, 5d. lb. *Veterinary Section*.—Alum. pulv., 8d. lb.; curcum. p. 1s. 9d. lb.; diapente, 1s. lb.; ferri sulph. coml., 6d. lb.; fœnugr. pulv., 1s. lb.; gentian. rad. pulv., 2s. 6d. lb.; glycyrrh. rad. pulv., 2s. 6d. lb.; gran. parad. pulv., 1s. lb.; mag. sulph. coml., 6d. lb.; ol. ricini vet., 2s. 6d. lb.; ung. hydrarg. B.P.C. ("Trooper"), 7s. 6d. lb.; zirb. pulv. coml., 2s. 6d. lb. *Packed Goods*.—Petrol. emuls., 4-oz. bot., 1s. 6d., 8-oz. bot., 2s. 6d.; syr. 2-oz. bot., 1s. 2d., 4-oz. bot., 2s.

**SYNTHETIC RUBBER.**—It was stated at a meeting of the German Dyeworks, late F. Bayer & Co., of Leverkusen, that the production of synthetic rubber had been abandoned, on account of the enormous advance in the prices of raw materials, which rendered it impossible for the artificial product to compete with the natural arti-



## Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

### Report on the May Analytical Exercise.

Powder distributed to students on May 11 contained parts by weight of potassium sulphate, two parts of potassium oxalate, and one part of potassium nitrate. The indicated composition of such a mixture is:

K	...	...	...	42.7
SO <sub>4</sub>	...	...	...	22.0
C <sub>2</sub> O <sub>4</sub>	...	...	...	19.1
NO <sub>3</sub>	...	...	...	12.3
H <sub>2</sub> O	...	...	...	3.9

100.0

Trace of chloride was also present as impurity. Samples of the powder were sent out to fifty-eight students, and twenty-eight reports were submitted for examination. Potassium and the sulphuric-acid radical were detected by the writers of all the reports sent in, but the oxalic-acid radical was missed in seven cases and the nitric-acid radical in five. Twelve students failed to observe the evolution of water when the powder was heated in a dry test-tube.

Designed as an instructive exercise for junior students, the analysis illustrated some difficulties with which these students are often brought into contact at an early stage. In the first place, the powder dissolved completely in distilled water—somewhat slowly in the cold, since neither potassium sulphate nor potassium oxalate is very soluble in cold water, but rapidly on warming. When ordinary tap water was used as solvent, however, a turbidity was not only produced which did not disappear on heating, but which it was readily removed by the addition of a little of hydrochloric acid. This turbidity was due to the formation of insoluble calcium oxalate by the interaction of the potassium oxalate in the powder with the calcium salts present as impurities in the water supply. This production gave rise to a considerable amount of error and misconception on the part of a number of students. It seems probable, moreover, that the reports on the presence of zinc, calcium, and magnesium as constituents of the powder, which were exceptionally correct on this occasion, were based upon reactions for the removal of the impurities in tap water were also primarily responsible. The importance of employing only distilled water for all delicate analytical work was thus well illustrated in this exercise.

The operation carried out by a surprisingly large number of students on this occasion may also have been suggested as requisite by the incomplete solubility of the powder in tap water. This was the preparation of a solution to be tested for acid radicals by boiling the powder in tap water and sodium carbonate. While this is the standard method employed when dealing with substances containing metallic radicals that can be converted into insoluble compounds by boiling with solution of sodium carbonate and can then be removed by filtration, it is superfluous when (as was the case in this particular instance) no such metallic radicals are present. Further, for this sodium carbonate decoction (as a number of students did) when there was no precipitate to remove, it was a self-evident waste of time.

The sparing solubility of silver oxalate in dilute nitric acid was responsible for numerous reports as to the presence of a chloride in quantity much greater than the actually present. In some cases, where an oxalate had not already been detected, the silver oxalate precipitate on the addition of silver nitrate was simply taken for silver chloride, because it did not dissolve immediately in dilute nitric acid, and in other cases, where an oxalate had already been detected, a chloride was supposed to be present as well as the oxalate, for the same reason.

Another point requiring some care arose in connection with the presence of both sulphate and oxalate in the powder. When a sulphate is present in quantity in a solution, calcium chloride may yield a precipitate of calcium sulphate, which is sometimes mistaken for calcium oxalate. It is necessary, therefore, to submit such a precipitate to further examination to prove whether it consists of sulphate only or of a mixture of sulphate and oxalate. This is not at all a difficult matter, but it was not quite effectively dealt with by some correspondents, most likely owing to their not being aware of the necessity for confirming a precipitate as calcium oxalate in the known presence of a sulphate.

A number of correspondents to whom individual replies are not addressed below will find points regarding which they have been in doubt, or have fallen into error, referred to in the foregoing general remarks or in the replies to other correspondents.

### PRIZES.

The First Prize for the best analysis has been awarded to

MICHAEL BURNLEY, 12 Mowbray Road, Sunderland.

The Second Prize has been awarded to

LIONEL LEVENS, 5 Lowther Street, Kendal.

*First Prize.*—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

*Second Prize.*—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

### MARKS AWARDED FOR ANALYSES.

M. Burnley (1st Prize)	96	Triticum	...	84
L. Levens (2nd Prize)	95	McGinty	...	83
Benzaldehyde	93	Brighteyes	...	81
Secundus	92	Eager	...	75
G. E. S. B.	91	Enfant	...	71
Mytosis	89	Capiat	...	70
Phenol	89	Polyturpine	...	70
News	88	B. A. M.	...	68
Brucine	86	Pedestrian	...	65
Gintario	86	Propositi Tenax	...	65
Senloh	86	Napoo	...	63
E. M. B.	84	Cirdec	...	58
Marconi	84	D. M. H. B.	...	54
Tayside	84	Vanadium	...	47

### TO CORRESPONDENTS.

*SECUNDUS.*—As you do not mention that distilled water was employed in your analysis, the presumption is that you used tap water throughout, in which case the calcium you detected no doubt was introduced as an impurity in the water. The powder dissolved completely in distilled water—slowly in the cold, but rapidly on heating.

*G. E. S. B.*—There was a good deal more to be noted when the powder was heated in a dry tube than merely that charring did not take place. Had you observed more closely the results of this test, and, in particular, had you reported the evolution of water, you would have taken first place this time.

*MYTOSIS.*—It is difficult to say what caused the precipitate which led you to conclude that magnesium was present. Perhaps it was due to impurities in tap water, but you report that the powder was entirely soluble in cold and boiling water. You state that "no indications" (presumably, no precipitate) were observed on adding silver nitrate to a solution exactly neutralised with nitric acid, but silver oxalate should have been precipitated from such a solution.

*PHENOL AND BRUCINE.*—You left the nature of that black precipitate which you obtained in the zinc group, but which proved not to be due to cobalt, nickel, manganese, or zinc, an unexplained mystery. The precipitate which you took for silver chloride must have consisted mainly of silver oxalate, which is only sparingly soluble in cold dilute nitric acid.

**NEWS.**—More information than you succeeded in securing was obtainable from a careful preliminary examination of the powder. The time devoted to this examination is usually well spent if the results are carefully observed and correctly interpreted.

**GINTARIO.**—You report—no doubt inadvertently—that the precipitate of calcium oxalate was soluble in acetic acid. Its insolubility is characteristic. Note that the ferrous sulphate test for a nitrate yields a brown coloration—not a precipitate. Confirmation of the presence of ammonium was not obtainable.

**E. M. B.**—The quantity of the nitrate present was too large for any doubt to remain after the careful application of either of the tests you employed.

**MARCONI.**—The original powder did not contain any constituents which could yield the reactions for zinc and magnesium which you report, hence these must have been due to some introduced impurity. Imperfectly cleansed test-tubes are a common source of such impurity.

**TAYSIDE.**—Old solutions of potassium ferrocyanide often yield a slight blue coloration when added to any acid solution in the total absence of any other iron compound. This may account for your concluding that traces of iron were present. Ammonium was not confirmed.

**TRITICUM.**—The production of a white precipitate when potassium is being tested for by the sodium bismuth thio-sulphate test is usually due to the employment of an unsuitable solution of bismuth nitrate. The concentration of this solution must be carefully attended to in order to obtain a satisfactory reagent.

**McGINTY.**—Your doubts regarding the possibility of calcium being present in a powder which contained the oxalic-acid radical, dissolved completely in water, and yielded a neutral solution, were, of course, well founded. It is difficult to say how the calcium was introduced into your analysis. By some inexplicable lapse you describe a precipitate of barium sulphate as having been readily soluble in ammonia.

**BRIGHT EYES.**—While you report chloride both present and absent from the results of separate tests, you omit it from the constituents detected; hence, presumably, you favour the evidence of its absence.

**ENFANT.**—It is quite insufficient to state regarding acid radicals that evidence of sulphate and oxalate only was found. You must describe concisely what you do, what you observe, and what conclusions you draw from your observations.

**POLYTURPINE.**—The decomposition and gas evolution which occurred when the powder was heated with concentrated sulphuric acid should not have been overlooked.

**PEDESTRIAN.**—If you had reflected upon the sparing solubility of strontium sulphate you would have hesitated to report strontium and the sulphuric-acid radical as present in a powder which dissolved readily in water. It seems probable that the precipitate which you took for strontium sulphate was really calcium oxalate.

**NAPOO.**—The reaction which you got with turmeric paper and regarded as due to a borate was doubtless caused by hydrochloric acid, which distinctly alters the colour of turmeric paper upon drying. Examine this point with solutions containing hydrochloric acid alone with, and also without, a borate. The alcohol flame-coloration test for boric acid is always much less delicate than the turmeric-paper test.

**CIRDEC.**—You were led into much needless work through concluding that a phosphate was present. The precipitate you got with ammonium molybdate was probably molybdic anhydride, which is much paler yellow than the phospho-molybdate precipitate. Your failure to obtain confirmation of the suspected presence of an oxalate is remarkable as the quantity present was not small.

**VANADIUM.**—Your report indicates that you will require to deal with any future analyses somewhat more systematically. On the whole, your results are fairly satisfactory, but on considering the insolubility of barium sulphate you will realise that barium and the sulphuric-acid radical could not be present side by side in a powder easily soluble in water.

## Association Affairs.

**General Workers' Union.**—A general meeting of the pharmacists' assistants' section of the National Workers' Union and General Workers' Union, held on June 1 at Sheffield, was addressed by Mr. J. Gilmour, who spoke on *Organisation*. A discussion followed.—A meeting of the Newcastle pharmacists' and assistants' section held on June 1, under the chairmanship of Mr. W. Burns. An address was given by Mr. J. Gilmour, a resolution was afterwards carried in favour of putting forward a claim for the immediate enforcement of national rates and wages in the Newcastle area. Mr. Eclair Heath, principal of Rutherford Technical College, afterwards addressed the meeting, and explained a new course in pharmacy which is being started in the autumn.

**London (W.).**—The London (Western) Pharmacists' Association has appointed the following officers for the year: *President*, Mr. H. S. Watson; *Vice-President*, W. E. D. Shirliff; *Hon. Secretary*, Mr. B. R. Wilson; *Hon. Assistant Secretary*, Mr. R. R. Pratt; *Social Secretary*, Mr. Harry Martin; *Treasurer*, Mr. H. R. Procter.

**Women Pharmacists.**—A social meeting was held by the London group of the National Association of Women Pharmacists on June 4, with the object of bringing the Association to the notice of women students just entering for the Qualifying examination. Miss Buchanan (President of the National Association) and Miss Gilman (President of the London Group) gave short addresses, and there was also a very enjoyable musical programme.

## Bankruptcy Report.

**Re Arthur Edwin Ogden**, optician and surgical fitter, 58 Dalton Road, Barrow-in-Furness. An adjourned public examination of this debtor was held on June 4 at the Magistrates' Court, Barrow-in-Furness. His statement of affairs showed gross liabilities of £521, and a deficiency of £14. 14s. 5d. The official receiver said that the examination had been adjourned for the debtor to furnish an account of all the money received and paid out during the last two years. He had rendered some further information, but not the account that was asked for. Debtor now said he had received £594 from moneylenders and £354 in wages since his business was formed into a company, styled "Morris Ltd." His household expenses for that period were £1, and he had repaid moneylenders £389. The illness of his wife he estimated at £50, legal expenses £40, and he had lost £80 in betting. The official receiver stated that there was a matter of £403 not yet accounted for. Debtor said there were certain other personal expenses he agreed he had been somewhat extravagant. The registrar said that as the debtor had not obeyed the order of the court he could not close the examination, which was adjourned *sine die*.

## Deed of Arrangement.

**Sloman, Frank**, 189 Sidwell Street and 1 Ash Southernhay, Exeter, chemist and druggist. Trustee: W. C. Knill, 20 Bedford Circus, Exeter, chartered accountant. Dated May 27; filed June 1. Liabilities, £3,371; estimated net assets, £1,910. Among the creditors are: Allen & Hanburys, Ltd., £10; Bourne, Hanson & Co., £25; A. Bishop, Ltd., £16; The British Drug Houses, Ltd., £64; Burroughs Wellcome & Co., £1; Thomas Christy & Co., £11; Fulham Pottery Co., £1; Galen Manufacturing Co., Ltd., £39; H. & T. Kirby & Co., Ltd., £19; S. Maw Son & Sons, Ltd., £60; Messon & Co., Ltd., £20; R. J. Reuter, £11; Warrick & Co., Ltd., £22; Wander, Ltd., £16; Hockin, Wilson & Co., £10; Wright, Layman & Umney, Ltd., £70; Co. & Co., £63; Evans, Gadd & Co., Ltd., £854; J. Townd & Sons, £14; C. E. Fulford, Ltd., £15; Blyton, Hey & Co., £15; Erasmic Co., Ltd., £11.



## General Medical Council.

### PENAL CASES.

consideration of other penal cases on June 2 (*C.* 7, June 5, p. 69) was continued, more time being given to the case of Frederick Arthur Pring, L.S.A., L.R.C.P., Streatham doctor, formerly in the Church, and who joined the Army when the war broke out. He also had been judged guilty in the Divorce Court, where the decree was made absolute last month, but nothing had been said there as to the professional relationship, which is the crux for the G.M.C. Mr. Pring did not appear, but was represented by his counsel, Mr. Hempson. Two offences were put in: (1) there was no adultery; (2) there was no professional relationship. On the evidence being given by the Council's solicitor the latter plea was withdrawn by Mr. Hempson, and the Council, were satisfied that the former did not avail and that adultery had been committed in spite of the disparity of age, Mr. Pring being sixty and the woman only twenty-five, and regarded the former as his "ward." After a deliberation of about half an hour Mr. Pring was announced to be found guilty and his name ordered to be erased.

### EDUCATIONAL MATTERS.

Matters of medical education have this session occupied more time and received more attention than has been the case for a long period in the history of the General Medical Council, one of those present saying that more important issues have been raised than at any time in the quarter of a century. On Thursday afternoon, June 3, Sir Francis Champneys dealt with the report of the Education Committee with regard to practical midwifery. Though the oldest branch of the profession, and though it had made enormous progress of late years, owing to the efforts of the Midwives' Institute, it had not yet come into its own, declared Sir Francis, and it was a matter of vital importance. A long discussion followed on the recommendation:

that a communication be addressed to the Ministry of Health and the Board of Health of Scotland begging that they may be taken for the utilisation of Poor-Law lying-in institutions for clinical instruction, and that such institutions be placed in the hands of expert supervision; and further calling attention to the desirability of limiting the acceptance of candidates for the C.M.B. certificates to those who give an undertaking to engage in the practice of midwifery for not less than three years after their qualification. It was proposed to add Ireland, but Sir John Moore said that the Poor Law in that country was a burning question, and Sir Arthur Chance added that if there were such institutions that could be used no person would neglect them. Sir Mathew Hay observed that the Poor Law was about to die, and that in Scotland women would leave their own homes, however humble, to go into a Poor Law institution. Dr. MacVail, on the other hand, said that their institutions were some of them admirable, and that women even played the trick of pretending that their husbands had deserted them in order to gain admission. Sir Gilbert Barling urged that institutions now available should be utilised. Half of the general hospital beds in the possession of the Poor-Law authorities, and amounting to these 90,000, 30,000 might be made available. The President informed the Council that the Ministry of Health had no power to say that Poor-Law institutions should be requisitioned for maternity hospitals, but the authorities were anxious that full use should be made of the institutions. Some were admirably equipped, and were not inferior to the best maternity homes. The recommendation was carried *nem. con.*

The programme was a very light one, nothing more was left on it but one or two formal reports and the remainder of the Report of the Education Committee on the study of Preventive Medicine, it was supposed that the Council would conclude its business on Thursday. The teaching of preventive medicine expanded, however, into a survey of the whole field of medical education and criticism of the curriculum, and launched the members into a debate such as they have not enjoyed for years. After a couple of hours on Thursday of discussion in committee

of the whole House the Council resumed on Friday morning, and continued, with a break for lunch and a few minutes for the Pharmacopœia Report, till 3.30. Sir Norman Moore led off with the battle-cry of the duties of the G.M.C. in laying down the course of study proper to medical education and in deciding what could be done in five years. Sir James Hodsdon doubted whether the five years fulfilled its purpose; he thought there were too many lectures. Sir John Moore was of opinion that the five years was essentially a retrograde step; he would postpone the entrance on the study of medicine till the age of eighteen. He believed that the existing curriculum would have to be much modified; the multiplicity of examinations was mischievous. As an instance of the ignorance of students, he mentioned that one of them had remarked incidentally that the Pharmacopœia was "only a book for chemists," having no idea of its importance in therapeutics. Sir George Newman, who had been largely concerned in drawing up the report, and whose eloquent support of it, expressed with dramatic fervour, was received with applause, asked how the profession was going to face the demands made on two-thirds of them by the State; public health was a communal asset. Speaking of the importance of the preliminary scientific subjects, he maintained that the time was ripe for the G.M.C. to reconsider the revision of the curriculum and reorganise clinical education. The student was rushed and had no time to digest his knowledge; examinations should be reformed and follow instead of leading the studies, and the curriculum needed lightening at both ends. He appealed to the Council to train practitioners who would combat more effectually venereal, tubercular, orthopaedic, and mental diseases.

Dr. Norman Walker recounted his experience of medical education in the States. There the students must follow two years' high school by four years' college education before they entered on their medical course of four years; and they were not admitted to the profession by the Medical Board (there was no G.M.C.) till they had lived for a year at a medical hospital or laboratory. The latter gave them the finest training, and the efficiency of the hospitals was enormously increased by having a teaching staff. He had been immensely struck by the close co-operation between State schools and hospitals. He suggested that the curriculum might be shortened by making the terms longer; the American student worked harder, and for forty-five weeks in the year instead of, in our case, for only thirty-two. The place of the professors might be taken at times by well-paid assistants who would be pleased to act as teachers and possibly do it better in the case of junior students. He thought that chemistry, physiology, and biology should be taken before medical study was commenced, and unsuitable men would thereby be eliminated.

Dr. MacVail begged that Dr. Walker's valuable information from the States might be published. He pointed out that while care must be taken not to interfere unduly with the dental curriculum, as there were not enough dentists to go round, the medical schools were overcrowded and that gave them an opportunity, for the benefit of all concerned, of lengthening their curriculum. Sir Arthur Chance urged that as a soldier could carry only a certain amount in his knapsack, so the student's capacity was limited, and the curriculum should be weeded, the least useful parts combed out. There was a danger if the preliminary sciences were put into an earlier stage that they might be taught perfunctorily, he begged that the education should be sound. Mr. Thomson warned the Council of the difference between education and instruction; if they wanted to raise the standard to a University level they must soak in education, not merely give information. Another speaker drew attention to the extremely low level of the literary test of the Preliminary; an examination that was refused by solicitors, accountants, and by auctioneers and estate agents was accepted as the evidence of culture required by a medical man. Sir James Hodsdon pressed the importance of having a uniform anatomical nomenclature. Several other members added their quota, and the discussion was pronounced to have been most instructive and illuminating. No

recommendation was formulated. The Report, voted by all to be a very valuable one, for which they were much indebted to Dr. Mackay, was sent back to the Committee to consider the alterations in the curriculum in the light of the discussion. It was agreed to send copies of the Report to all the teaching bodies.

#### PHARMACOPOEIA COMMITTEE.

The following is the report of the Pharmacopœia Committee referred to above:

The number of copies of the British Pharmacopœia, 1914, which were sold by the publishers between November 22, 1919, and May 29, 1920, was 1,582. The number sold in the year ending May 29, 1920, was therefore 3,841. The total number sold since the date of publication is 36,852. The stock remaining in the hands of the publishers and their agents abroad is 1,773 copies. As the stock is now insufficient to meet the normal demand for a full year the Committee have thought it expedient to arrange for the production of a further impression of 5,000 copies.

In each of the impressions after the first certain typographical and other minor corrections have been made in the text. A complete list of these corrections, as embodied in the fourth issue (August 1919), has been prepared for the Committee, and printed in a convenient form for insertion in the volume. A copy is appended to this Report. The list will be communicated to the medical and pharmaceutical journals for publication.

In the British Pharmacopœia, 1914, page 22, the melting-point of acidum salicylicum is given as "156° to 157°." The upper limit defined the standard of purity which was obtainable at the time the specification was drawn up. It appears that as the result of improvements in the manufacture of salicylic acid, indirectly due to advances in the purification of phenol effected during the war, a very pure acid, with a melting-point approaching 159°, is now procurable commercially. Since 1914 the United States Pharmacopœia, 1916, extended the prescribed range to 159°. It is undesirable that a purer preparation should be officially excluded in favour of a less pure; and the Committee accordingly propose at the next opportunity to make the corresponding correction, and to give "156° to 159°" as the permissible range of temperature for the melting-point of acidum salicylicum. The Pharmaceutical Editor and the Referee in Pharmacology concur in advising this change.

While the present Pharmacopœia was in course of preparation the Committee agreed to approach the Government with the suggestion that a public institution should be established for the official standardisation of such remedies as serums, vaccines, and other preparations which could only be assayed effectively by other than chemical and physical methods. At the time the suggestion was not entertained by the authorities. The Minister of Health has now taken the matter up and appointed a special committee to advise him on the legislative and administrative measures to be taken for the effective official control of such therapeutic substances. The Chairman has given evidence before it regarding the views held by the Pharmacopœia Committee, and the manner in which officially recognised standards of potency, etc., might in the case of serums, vaccines, etc., be hereafter embodied in the Pharmacopœia.

#### B.P., 1914, CORRIGENDA.

The following corrections have been made in the fourth issue (August 1919). Some of them were inserted in the second issue (May 1915), and others in the third issue (May 1917):

page line			
28	2 for	multiply the difference by 0.3217; the result will be	read Each millimetre of the difference corresponds to 0.03217 gramme of ether-soluble alkaloids. The product of the difference multiplied by 0.3217 gives
29	23 for	0.2 gramme	read 2.0 grammes
46	9)	after copper,	insert arsenium,
48	13)		
106	13 for	cresol	read creosol
107	6 for	1.045	read 1.040
137	20 for	90	read 70
143	22 before	Extract	insert Dry
161	30 for	2	read 4
165	33 for	0.100	read 0.200
168	22 for	1.16 to 1.20	read 1.116 to 1.140
190	25 after	Injection	insert is of one-half the strength of the corresponding preparation of the British Pharmacopœia, 1898.

page line			
194	29 for	N/10	read N/1
242	25 for	not alkaline to litmus, and when	read alkaline to litmus, when it is
256	24)		
262	5 for	sodium	read potassium
321	4 for	Rhubarb Root	read Rhubarb
376	16 for	Flower	read flower
380	16)		
381	11 for	0.17	read 0.18
381	12 for	0.057	read 0.0057
390	29 for	decimils	read decigrams
427	3 for	50	read 30
428	23 for	90	read 60
453	16 for	15 to 17	read 12 to 14
455	13 for	20	read 24
462	18 for	soluble in water not more	read insoluble in water less
474	14 for	100	read 1000
476	10 omit,	in crystals	
476	13 for	one hundred and sixty	read about seventy-five
524	6 for	greater or less than	read which is beyond
524	6 after	error,"	read in excess or defect,

A number of typographical and other corrections have been made in the index.

## Society of Public Analysts

At a meeting of the Society of Public Analysts, held June 2, Mr. Alfred Smetham (President) in the chair, a paper on *The Estimation of Nitro-Glycerin* was read by Mr. H. Droop Richmond. The hydrolysis of nitro-glycerin was discussed, and two methods of estimation, one gasimetric and the other alkalimetric, were given by the author, which, he claimed, yielded satisfactory results. A paper on *A Study of the Determination of Potassium as the Perchlorate* was given by Mr. R. Leth Morris. The author pointed out that when his process is properly carried out the results are highly accurate, the average error not exceeding 0.1 per cent. on potassium salts. Attention was called to the fact that the wash fluid should not contain less than 97 per cent. of alcohol after adding 0.2 per cent.  $\text{HClO}_4$ . Exact details of the method of carrying out the process were given, with rules as to temperatures. Quartz dishes were commended, and the necessity for the removal of phosphates emphasised. The author states that when  $\text{Ca}$ ,  $\text{Fe}$ , or  $\text{Ba}$  are present they do not interfere, but when  $\text{Ba}$  is present barium sulphate will be found in traces during evaporation over a gas flame. Apparatus and evolution methods of analysis and an improved form of U-tube were exhibited by Mr. E. R. Dovey.

SPECIMENS AND DIAGRAMS of poisonous plants likely to be found in gardens and woods around London—*Aconite*, *belladonna*, and *digitalis*—are being used in London County Council schools to warn children.

REALISM ON THE FILM.—An English company is filming Ibsen's play "Pillars of Society" at the little town of Grimstad, where the author, as a boy, served a chemist's shop. It is understood that the development of the chemist's boy into a dramatist is not to be in the pictures.

CAMBRIDGE UNIVERSITY has received an offer from the Department of Scientific and Industrial Research to establish and equip there, at a cost of 30,000*l.*, a low-temperature station for research in bio-chemistry and bio-physics, as well as to provide for its maintenance when established.

RESEARCH SCHOLARSHIPS.—The Ministry of Agriculture and Fisheries is inviting nominations for a limited number of research scholarships in agricultural science; see nominations to be received not later than July 15. For further particulars may be obtained from the general secretary of the Ministry, 72 Victoria Street, London, S.W. 1.



## Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

### DENTISTS ACT AMENDMENT BILL.

Mr. Addison stated in the House of Commons on June 9 that, owing to the pressure of other legislation, the draft of the Dentists Act Amendment Bill is not yet completed, and he is unable to say when it will be introduced, though he hopes it will be ready shortly.

### WAR-WEALTH LEVY.

The Chancellor of the Exchequer stated on June 7 that the Government, after full consideration of the report of the Select Committee and of the retrospective advantages and disadvantages of the suggested scheme for a levy on wealth, have come to the conclusion that the dangers attendant on such a levy altogether outweigh any advantages which can be derived from it. They have decided to make any proposals, in that sense, to the House.

### GOVERNMENT OF IRELAND BILL.

This Bill is now being considered in Committee of the House of Commons. Clause 4 deals with the legislative powers of the two Irish Parliaments it is proposed to set up. The clause enumerates the subjects in respect of which these Parliaments will not have power to make laws. These include "trade-marks, designs, merchandise marks, copyright or patent rights." No comment was made in Committee on the sub-clause containing this provision.

### IMPORT AND EXPORT LICENCES.

Mr. Bridgeman, on June 7, replying to a question in the House of Commons, said no licences are required for imports into the United Kingdom other than arms, munition, opium, and cocaine. All exports from the United Kingdom to Soviet Russia are still subject to licences, and licences are required for export to all other countries of the limited number of commodities specified in the list of export prohibited goods issued fortnightly by the Board of Trade.

### EXPORT OF COAL-TAR PRODUCTS.

Mr. Bridgeman, on June 8, stated that applicants for export licences for certain coal-tar products are required to produce a certificate from the actual manufacturers to the effect that they can supply the quantity of goods in question for export without detriment to their deliveries to domestic consumers. It is obviously in the interests of export trade generally that the requirements of the licence of these commodities in the United Kingdom should be applied so far as practicable.

### METHYLATED SPIRIT.

The Chancellor of the Exchequer stated in the House of Commons on June 7 that methylated spirit imported is liable to the full spirit import duty, and there is no provision in the Finance Bill for waiving this duty on importations of power methylated spirit. But the plain intention of the Government is that foreign spirit or rum may be imported for use in this country, subject only to payment of the difference between the duty of Customs chargeable on and the duty of Excise chargeable on British spirits.

### EXCESS PROFITS.

Mr. Baldwin stated in the House of Commons on June 7 the amounts of excess profits duty (including munition levy) paid into the Exchequer for each year since its introduction in 1915 are as follows:—

Year	Exchequer receipt £
1915-16	140,000
1916-17	139,920,000
1917-18	220,214,000
1918-19	285,028,000
1919-20	290,045,000

For the year 1920-21 the yield is estimated to be £20,000,000.

### THEODORE SCHLAGENTWEIT.

Several questions have been asked in the House of Commons regarding a German named Theodore Schlagentweit, who was prior to the war German Consul in Manchester and was connected with a firm of chemical brokers in that city. The Home Secretary was asked whether Schlagentweit has returned to this country and is attached to the German Embassy. The reply is that the man was convicted in August 1914 for travelling more than five miles from his home, and was subsequently interned until he was repatriated. He came to this country recently as a diplomatic courier. Sir W. Joynson-Hicks asked whether there is a very strong suspicion that facts regarding the Manchester Regiment were conveyed to Germany by Schlagentweit, and Major Nall asked whether the man was a former German spy. The Home Secretary replied that he would consider any information placed before him, but he is not aware of any evidence which would entitle him to describe Schlagentweit as a spy. Persons known to have been enemy spies will not be allowed to enter this country.

### NATIONAL HEALTH INSURANCE FINANCE.

Major Barnes, on June 3, asked the Minister of Health what amounts have accumulated up to March 31, 1920, to meet the liabilities arising out of National Health Insurance, and in what hands; what is the estimated annual liability on the Act recently passed; what annual increase would be caused by increasing the benefits in the Act recently passed so as to make them 140 per cent. greater than under the Act of 1911; and what annual increase would be caused if the benefits to women were on such increased basis made equal to men.

Dr. Addison replied: With regard to the first part of the question, the moneys accumulated under the National Health Insurance Acts up to March 31, 1920, are as follows: Investments in the hands of Approved Societies or invested on their behalf in securities selected by them (under Section 56 of the National Insurance Act, 1911) (cost), 29,000,000/; investments in the hands of the National Debt Commissioners (under Section 54 of the National Insurance Act, 1911) (cost), 47,500,000/; balances of cash in the several National Health Insurance Funds and in the hands of Approved Societies and Insurance Committees, 1,500,000/. With regard to the second part of the question, the estimated liability in respect of contributions and State grant arising under the National Health Insurance Act, 1920, for the period July 1920 to July 1921 is 36,692,000/., of which 14,400,000/., will be payable by insured persons, 15,350,000/., by their employers, and the balance—namely, 6,942,000/.,—out of moneys provided by Parliament. If sickness, disablement, and maternity benefits were increased by 140 per cent. over those provided by the Act of 1911, as suggested in the third part of the question, the corresponding cost, on the present actuarial basis of the scheme, would be increased by 17,950,000/., of which 3,400,000/., would fall on the Exchequer and the balance on insured persons and their employers. Under the alternative scale for women suggested in the last part of the question, the total cost on the basis indicated would be still further increased by 2,600,000/., of which 700,000/., would be payable by the State.

### INCREASE OF RENT BILL.

The second reading of the Increase of Rent and Mortgage Interest (Restrictions) Bill took place in the House of Commons on June 4, and the Bill was committed to a Standing Committee. Explaining why the Bill did not make provisions relating to the rents of shops and business premises, except those which are part of a dwelling-house, Dr. Addison said that to extend the Bill to offices and business premises which have comparatively high rents would extend it beyond the rental limit for dwelling-houses. If the limit was extended in the one case, it would have to be applied to dwelling-houses. There is, continued Dr. Addison, a very great difference between a shop and business premises of any kind and an ordinary dwelling-house. He added: "In what I am going to say I do not want to offend shopkeepers, but let us face the facts. If

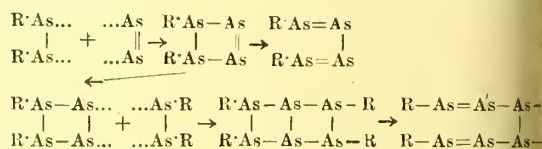
a person rents a house at 10s. or 11. or 21. a week, that is his liability, and unless he lets his house in lodgings or furnished rooms, or in some such manner which we now propose to limit, it is impossible for him to profiteer. He cannot pass on his liabilities to anybody else. But if a man is running a business or keeps a shop he can pass on his liability to his customers. This could only be dealt with by having a meticulous investigation of every retail transaction in the country, and I am not prepared to face that. It would be disastrous to the country to do it. But there is no doubt about it that a man who sells goods must inevitably try to pass on his standard overhead charges to his customers. I do not mind saying that I think that a great many shopkeepers have done very well and have often charged prices for their goods which I thought too high. They have succeeded for the most part in passing on the extra charges." Dr. Addison went on to refer to the extensions which are being made in business premises, the cost of which will be passed on to the customers. It is proposed, however, to set up a Select Committee of the House at an early date, with terms of reference which will be brought forward in a few days' time, to examine the whole of this question with regard to business premises and so forth and to submit suggestions as to what should be done in the matter. There will be no dearth of suggestions for the Committee to discuss. In appointing the Committee it is proposed to act on their scheme as soon as possible.

## Chemical Society.

At the meeting of the Chemical Society held at Burlington House on June 3, Dr. M. O. Forster being in the chair in the place of the President, Dr. Forster (in collaboration with Mr. W. B. Saville) read a paper on *Studies in the Camphane Series: The Cyanohydrazone of Camphorquinone*. On treating diazocamphane with potassium cyanide the hydrazone was obtained, and the authors failed to obtain cyanohydrazin, but succeeded in producing a methyl derivative, which on hydrolysis yields a new substance; from the results obtained the inference was drawn that the imino-ethers of semi-carbazone are produced on hydrolysis of the hydrazone in methyl or in ethyl alcohol.

Mr. R. G. Fargher then read a communication from the Wellcome Chemical Research Laboratories on *Arsinic Acids Derived from Guaiacol and Veratrole*. The reaction between *p*-hydroxyphenylarsinic acid and potassium persulphate was shown to give 3:4-dihydroxyphenylarsinic acid, though in small yield and much contaminated with the unchanged acid. Separation of the two was difficult, and their identity was most readily established by complete methylation and fractional crystallisation of the product. 3-Amino-4-methoxyphenylarsinic acid, prepared from *p*-methoxyphenylarsinic acid by nitration and subsequent reduction, and 3-amino-4-hydroxyphenylarsinic acid were found to resemble *o*-aminoanisole and *o*-aminophenol in the difficulty which attended the decomposition of their diazo compounds, the energetic treatment necessary causing almost complete decomposition of the arsinic acids. The "Bucherer" reaction, by which the amino-group in certain aromatic amines is converted into a sulphurous ester by the action of sodium hydrogen sulphite and subsequently replaced with hydroxyl by suitable means, was also unsuccessful. The final method of attack—the Bart reaction, by which diazotised amines are coupled with sodium arsenite in alkaline solution with or without the presence of a catalyst such as copper powder—proved successful, and 3-methoxy-4-hydroxyphenylarsinic acid, 3-hydroxy-4-methoxyphenylarsinic acid, and 3:4-dimethoxyphenylarsinic acid were prepared and their reactions studied, in particular the preparation of the corresponding nitroderivatives and their reduction. 3-Methoxy-4-hydroxy-5-nitrophenylarsinic acid underwent the normal arsenobenzene reduction with sodium hyposulphite, giving rise to 3:3'-dimethoxy-4:4'-dihydroxy-5:5'-diaminoarsenobenzene, differing from "salvarsan" only by the presence of a methoxyl-group, and

resembling it closely in its properties and toxicity. 3-Hydroxy-4-methoxy-5-nitrophenylarsinic acid under similar conditions behaved abnormally, yielding a polyarsenic of the type  $R_3As_3$ ; while 3:4-dimethoxy-5-nitrophenylarsinic acid, which did not yield an insoluble reductive product, probably on account of sulphamic acid formation, on conversion into the amino-acid and subsequent reduction with hyposulphite gave an abnormal compound of a second type— $R_2As_3$  or  $R_4As_6$ . The mechanism of the formation of these abnormal products and their possible formulation were discussed. It had been stated by Berthelm that a mixture of molecular proportions of two arsinic acids yielded solely the unsymmetrical arsenobenzene. More recently, Karrer had questioned the mechanism assumed by Berthelm, and suggested that the symmetrical arsenobenzenes were first formed and then underwent "double decomposition." Utilising the principle involved in the second suggestion, as this seemed to be in harmony with the observed facts, fission of the arsinic utilised to form the polyarsenides apparently succeeding rather than preceding reduction, formulas were evolved for the types  $R_2As_4$  and  $R_4As_6$ , in accordance with the scheme:



The difficulty of completely proving homogeneity in these compounds was pointed out.

While this paper dealt with investigations for curing human ills, the next paper's subject was the manufacture of compounds for killing men. This was a contribution by Prof. G. T. Morgan (with Mr. D. C. Vining) of *Diphenylarsenious Chloride and Cyanide (Diphenylchlorarsine and Diphenylcyanoarsine)*. Prof. Morgan, in describing the process adopted, exhibited a rotating autoclave used for this purpose, and made from a 6-inch shell. *Organo-derivatives of Bismuth: The Preparation of Derivatives of Quinquevalent Bismuth* was the subject of the paper read by Mr. F. Challenger (with Mr. A. E. Goddard). The object of this work was the preparation of an asymmetric-bismuth compound, which, however, had not yet been obtained. The paper dealt with the acidic and mixed bismuthate corresponding to the formula  $(C_6H_5)_3BiCl_2$ . By the action of alcoholic potassium hydroxide and carbon dioxide on this compound the authors succeeded in obtaining a compound of the formula  $(C_6H_5)_3BiCO_3$ . They were unable to obtain the hydroxide, but by the action of moist ammonia in chloroform mixed hydroxide of the formula  $C_6H_5Bi(OH)Cl$  was produced. Another mixed compound, corresponding to the formula  $BiCl_2 \cdot H_2$ , was also obtained. The paper read by Dr. J. Kenner (with Mr. M. Parkin), entitled *The Influence of Nitro Groups on the Mobility of Substitutes in the Benzene Nucleus: The Dinitrotoluenes*, was a discussion of the question of the mobility and the substitution of the nitro group, as well as the factors determining the formation of compounds, in dinitrotoluenes. Mr. R. C. Farmer, in his paper on *The Decomposition of Nitric Esters*, dealt with the question of the decomposition of nitrocellulose and nitroglycerin. He referred to the suggested formation of an aldehyde, and from the nature of the products obtained it is quite likely that a double aldehyde of the formula  $CHO.CO.CHO$  is produced. However, as alcohol is not found as a product, this would be evidence against the presence of hydrolysis. But it must not be forgotten that nitric acid oxidises alcohol, but if the alcohol is protected, then normal hydrolysis takes place.

**NAVY AND ARMY CANTEN SHOPS.**—As a result of recent deputation, an undertaking has been given by the financial secretary to the War Office that the shop opened by the Navy and Army Canteen Board in London and Aldershot shall be closed and no others opened.



# Insurance Act Dispensing.

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

## Reports from Local Centres.

### ENGLAND.

**Blackburn.**—At a meeting of the Insurance Committee on June 8, it was decided to communicate with the local Infirmary to ascertain the terms upon which the Infirmary would be prepared to make autogenous vaccines for ordinary persons. It was felt that while prescriptions for ordinary vaccines could be supplied through the chemist, special arrangements ought to be made for autogenous vaccines. The quarterly return showed that the cost of prescriptions in the Blackburn area was 1,875*l.* 14*s.* 5*d.*, made up as follows: Ingredient prices, 888*l.* 4*s.* 8*d.*; dispensing-fees, 987*l.* 9*s.* 9*d.*, in respect of 46,796 prescriptions. The average ingredient price per prescription was 4*d.*; the average dispensing-fee per prescription, 5.06*d.* A report was presented regarding the interim recommendations on the future provisions of adequate services, and it was agreed that the Medical Benefit Sub-Committee should discuss the proposals set forward at their next meeting. A point arose as to whether rheumatoid phylacogen could be supplied as part of medical benefit. The clerk (Mr. H. Whittaker) said the Ministry of Health had held that this was a service which could be consistently undertaken by a general practitioner of ordinary skill. It was properly chargeable to the drug fund.

**Exmouth.**—At a meeting of the Devonshire Insurance Committee, held on June 7 at the residence of the chairman (Mr. P. F. Rowsell), the South-Western Joint Pricing Committee gave a statistical report on prescriptions priced as follows:

	Total Number	Average cost of pricing per 1,000
1917 ... ..	1,815,443	20 <i>s.</i> 2 <i>d.</i>
1918 ... ..	1,796,416	19 <i>s.</i> 10 <i>d.</i>
1919 ... ..	2,058,151	22 <i>s.</i> 6 <i>d.</i>

It is reported that Mr. P. F. Rowsell has been re-elected chairman of the Pricing Committee. The Committee agreed on the insertion of the words "Supplied at — P.M." on the back of an urgent prescription would qualify for a double dispensing-fee. It was stated that the new medical benefit regulations had brought increased work to the Pricing Committee, particularly in regard to doctors' mileage, for which overtime had been paid. A contribution had been received from the Devon Panel Committee towards the expense, it being recognised that the work was largely increased owing to the failure of doctors to keep their own medical index registers up to date. Mr. Sprague, referring to the regulation requiring insured persons to receive their medicine from a chemist, asked to what extent medical men had refused to supply medicines. The acting clerk (Mr. B. L. Thomas) said he did not think there had been any direct refusals. The Minister of Health had approved of a scheme prepared in conjunction with the Panel Committee for the restoration of the Exchequer grant for increased practice expenses, 1919, upon the basis of one-half unit in lieu of each patient on the practitioner's list under the Capitation and one unit in respect of patients under the Fee Capitation. A vote of thanks was afterwards accorded to the chairman for his hospitality and for his excellent work in connection with Health Insurance matters.

**London.**—A meeting of the Pharmaceutical Committee was held on June 8, Mr. A. J. Wing (chairman) presiding. Messrs. A. R. Melhuish and A. R. Keith, members of the Committee, received the congratulations of the Committee on their successes at the recent election of a Council of the Pharmaceutical Society. The report of the Central Checking Bureau for March showed a margin of error of 0.14*d.* A statement of accounts for 1919 was received and a vote of thanks accorded to the honorary auditors, Mr. E. Skues, Tooting, and Mr. J. Coulton, Stepney. The secretary reported inter-

alia: (a) That the number of prescriptions dispensed for March 1920 was 499,967, the total cost being 19,532*l.* 12*s.* The average cost per prescription was 9.38*d.* (b) On the reassessment of drug prices for the purposes of Article 5 of the Medical Benefit Regulations, 1916, the secretary was instructed to submit the particulars to the Local Associations Executive. (c) That the Ministry of Health had indicated that it will be quite in order to supply a special pattern of cotton suspensory bandage, the appropriate cost price of which will be allowed to the chemist. The secretary's report was adopted. The Special Sub-Committee on Insurance Matters reported that they had carefully considered the question of reopening negotiations with the Minister of Health for increased terms, and that they had communicated their views on the subject to the Local Associations Executive. The Committee approved of the action taken.

**Middlesex.**—The Insurance Committee decided, on June 7, that a doctor employing a permanent assistant should be allowed to have 5,000 panel patients (the regulations allowed a maximum of 3,000 panel patients per doctor, and if he had a partner they could have 6,000 on their list). There was some criticism of the proposal on the ground that the number was too large, but Mr. Cooper said it had been found that the larger the panel the more satisfactory was the attention they received.

**Worcestershire.**—At a special meeting of the Insurance Committee on May 29, Mr. G. W. Hobson said that it had been called to investigate complaints by a panel doctor, on behalf of one of his patients, against chemists at Oldbury. It was said that the matter was considered so serious that they decided to have a special meeting at Worcester, to which they invited the whole of the chemists from Oldbury, also the doctor and the complainants. The last mentioned, however, declined to confirm the complaint, leaving the doctor in the lurch. It was decided, therefore, to take no further action in the matter.

### SCOTLAND.

**Dundee.**—A rota fixed by arrangement with the Pharmaceutical Committee for service on six holidays during the year has been published, and the hours of attendance for dispensing are from 11 A.M. to 1 P.M. on each holiday. The scheme for dispensing provides for shops being open daily from 9 A.M. to 7.30 P.M., except Wednesdays (9 A.M. to 1 P.M.) and Sundays (12.30 to 2 P.M.). The original closing hour was 8 P.M.

**Stirling.**—At a meeting of the Insurance Committee, held on May 28, Provost Raffan, chemist and druggist, explained that chemists would supply medicines after hours provided the prescription was marked "Urgent." There was no mention in the regulations of paying the chemists a double fee for turning out late at night. The tradesman got a double fee for turning out after his tea, but the chemist was not a tradesman. He added that the chemists' shops were open on Sundays at stated hours, but that the chemists were not inclined to open on holidays for special hours. Urgent cases, of course, were attended to on any day. Provost Raffan also complained of the unreasonable delay on the part of the Central Checking Bureau in passing the chemists' accounts for payment, and on his suggestion the Committee agreed that the clerk should inform the Bureau that the Committee desired the accounts to be attended to with a little more despatch in the future.

The No. 4 Area Checking Bureau, which includes Lancashire Boroughs and Westmorland, has issued a report covering last year's operations. The following statistics are given: Prescriptions, 1,052,526; total cost, 35,817*l.*; average ingredient price, 4.43*d.*; average dispensing-fee, 3.74*d.*

A SITE has been acquired near Hobart, Tasmania, for the manufacture of confectionery (including chocolate) by the associated companies of Cadbury Brothers, Ltd., J. S. Fry & Sons, Ltd., and James Pascall, Ltd.

## Trade Report.

42 Cannon Street, E.C. 4, June 10.

THE Mining Lane produce markets remain in the same inactive condition which has characterised them for several weeks past, and very little interest is shown in anything. The fact that the proposed war-wealth levy has been abandoned, and that the 60 per cent. excess profits duty is to stand, should make for more settled business conditions as the commercial community now know the worst; but in the absence of a definite financial policy for dealing with the huge floating debt of almost 1,366 millions sterling; and the prospects of still dearer money, the hindrances to trade expansion are likely to remain as acute as ever. At the same time, the splendid Board of Trade returns for May somewhat refute the pessimistic view that is taken of the general business outlook, as the exports of British manufactured goods for the first time on record exceeded one hundred millions sterling in value, or twelve millions more than the April figures; the drug and chemical business continued brisk last month, exports being almost three and a-half millions sterling, or over one and a quarter million more than in May last year. Heavy chemicals continue to meet with a fair export demand, and makers appear to be fully sold for some time to come; pharmaceutical chemicals on the other hand are extremely quiet, with prices tending lower, among them being the benzoates, gallic acid, benzonaphthol, calcium lactate, guaiacol carbonate, phenacetin, phenolphthalein, and milk-sugar. Tannic acid and saccharin are dearer. Japanese products, such as menthol, oil of mint, and refined camphor, are all more or less cheaper, and should there be no improvement in the economic conditions in Japan, lower prices may be anticipated. Mercury continues erratic, but prices have stiffened materially this week, the leading importers seizing the opportunity to advance prices, as second-hand lots appear to have been fairly well absorbed. Saccharin is about 2s. 6d. per lb. higher from makers with a sustained export demand. It is reported that Norwegian cod-liver oil refiners are less disposed to sell at the recent lower prices owing to the practical failure of the Finnmarken fishing and a fair demand on American account. Consequently the market is firmer. Cocoa-butter has sold freely, and a slight advance is now asked. Several of the fixed oils are lower, these including castor, linseed, cotton, rape, and soya. Egg products are easier, including albumen. Antimony, copper sulphate, and potash permanganate have also a weaker tendency. Among spices, peppers are steadier, and prices are now comparatively cheap and below the figure at which they can be imported. Zanzibar cloves are again cheaper. Jamaica ginger continues very scarce. Nutmegs are easier, and cinnamon and cassia are quiet.

Higher	Firmer	Easier	Lower
Musk ambrette Quicksilver Saccharin Shellac Tannic acid	Cedarwood oil Cocoa-butter Cod-liver oil Geranium oil Saffron	Albumen Benzoates Benzonaphthol Copper sulphate Farina (Jp.) Guaiacol carb. Phenolphthalein Pot. permang. Samaruba Sulphur	Antimony Camphor (Jp. slabs) Castor oil Clove oil Cloves (Zan.) Coriander oil Gallic acid Galls (Ch.) Leaf products Linseed Menthol Milk-sugar Mint oil Phenacetin Silver nitrate Soya-bean oil Turpentine

### Cablegrams.

NEW YORK, June 9.—Business is fair. Menthol is 50c. per lb. lower at \$9.00 per lb. Oregon balsam of fir has been reduced to \$1.75. Short buchu-leaves have been

reduced by 50c. to \$3.50 per lb. Mercury is \$10.00 per lb. at \$90.00 per bottle.

BERGEN, June 10.—The catch of cod amounts to 35,300,000, against 28,600,000 at the corresponding time of last year, and the yield of steam-refined oil is 52,000 barrels, against 34,500 barrels at the same date of last year. The demand has improved, and the market is firmer at 325s. per barrel c.i.f. for finest new medicinal oil.

ACETANILIDE is steady at 4s. 3d. per lb., but there is practically no demand.

AGAR-AGAR is steady, No. 1 Kobe strips offering at 2s. 9d. per lb. and No. 2 Yokohama at 2s. 6d.

ALBUMEN is easier, prime Chinese egg offering at 4s. 4d. per lb. on the spot, and June-August shipment is unchanged at 4s. 6d. per lb. c.i.f.

AMIDOL is stated to be firmer in the hands of continental agents, which, no doubt, is due to the improvements in the rates of exchange. British make is quoted at 12s. per lb. for spot in cwt. lots.

AMMON. BROMIDE is about 3d. per lb. easier, importers offering at 3s. 9d. per lb.

ANTIMONY.—The market weakened considerably all round late last week, while the official prices for refined were reduced 3d. per ton, ranging from 60l. to 50l. Foreign regulus is no better than 48l. to 50l. c.i.f. to arrive, the demand remaining slack. There is little inquiry for Chinese crude, which is called about 40l. c.i.f. to arrive.

ARROWROOT.—Sales of common manufacturing starch Vincent have been made at from 4d. to 4½d. per lb. and good grocery at 6d. per lb.

ARSENIC.—There is a steady demand, and the tone is firm at from 68l. to 70l. per ton for white Coish powdered, delivered London. Supplies are light; Australian is 65l.

ASPIRIN.—Spot prices are unchanged at from 5s. 0d. to 6s. 3d. per lb., as to quantity, and to arrive 5s. 6d. c.i.f. is quoted.

BENZOATES are easier, benzoic acid, ex toluol, offering at from 4s. 3d. to 4s. 9d. per lb., and for soda benzoate from 4s. 3d. to 4s. 9d. is also quoted, as to quantity.

BENZONAPHTHOL is about 6d. per lb. cheaper, importers offering at from 15s. 9d. to 16s. 3d. per lb., as to quantity.

CALCIUM LACTATE is slightly easier, importers offering at from 6s. 3d. to 6s. 9d. per lb. for B.P., as to quantity.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are about 6d. per lb. cheaper on the spot, with sellers at 9s. 6d. per lb.

CASTOR OIL is quiet and lower, pharmaceutical quality of English make offering at 89l., first pressing at 86l. and second pressing at 84l. per ton net, barrels included, ex works Hull.

CHILLIES.—At auction 60 bales East African sold at 125s. for fair yellowish stalky and 90s. to 100s. for cotton yellowish mixed.

CITRIC ACID.—The high price asked checks the demand and on a quiet market business has been done in several directions at 5s. 8d. per lb., less the usual discount.

CLOVES.—Zanzibar are from 1d. to 2d. per lb. cheaper, fair offering at from 1s. 9d. to 1s. 9½d. per lb. on the spot.

COCOA-BUTTER.—A good business has been done at 9d. per lb. from first-hands, and 2s. 10d. is now asked.

COD-LIVER OIL.—Owing to the failure of the Finnmarken fishing, it is reported that Norwegian refiners are less inclined to accept the recent lower range of prices and several prefer to wait for the autumn demand. In London finest Lofoten non-freezing medicinal oil is credited in several quarters at 310s. per barrel c.i.f. terms. The close our Bergen cable reports a firmer market at 25s. c.i.f., but there are spot sellers at slightly less.

BERGEN, June 4.—On April 20 the cod fisheries attained the figure of 28½ millions of fish and 36,466 barrels of cod oil, which compared favourably with the output for the previous year up to the same time. The Finnmarken had just then made a good start, and the prospect for this catch were good. Since then a change for the worse has taken place. The presence of seals on the fishing grounds has been hindering the catch, and upset the expectations of a fair yield. The output of the Finnmarken fisheries amounts up to date to about 3½ millions of fish, with a production of 5,170 barrels of oil, against 8½ millions of fish



10,053 barrels of oil up to the same time last year. The output of the Finmarken catch has thus become one of the highest on record. The total result of the cod fisheries up to date amounts to 33 millions of fish and 44,327 barrels of cod liver oil, against 25½ millions of fish and 28,332 barrels of cod liver oil in 1919. The fishing season is now practically over. Export, which has been hindered by a general harbour strike, up to date amounts to about 15,000 barrels, but a considerable quantity has been sold for later delivery.

**PEPPER SULPHATE.**—The slackness in export inquiries continues, and in their attempts to induce some fresh interest most makers recently reduced their quotations. It is reported that some business was done last week down to as low as 44*l.* per ton, although the tone since steadied, and current quotations *f.o.b.* Liverpool for casks about 45*l.* to 46*l.*, less 5 per cent. The after-effects of the war are still being felt, as the merchant trade during the war period was practically killed under the export restrictions. The picking up of the threads of foreign overseas business is apparently a very difficult matter, as foreign countries had to resort to their own manufacture on a more important scale. The home industry is certainly in a poor condition, with not much at present of any material revival. The exports from May during May 1920 were 1,420 tons, against 4,797 tons in May 1919 and 12,759 tons in May 1918; the five months' exports (January-May 1920) were 15,459 tons, against 65,5 tons and 65,374 tons in the corresponding periods of 1919 and 1918 respectively.

**UMARIN** on spot is quoted at from 37*s.* 6*d.* to 40*s.* 6*d.*, but sellers are shading these prices at 34*s.*, and under.

**G-PRODUCTS** continue quiet and practically unchanged. These liquid hen yolk containing 2 per cent. boric acid is quoted at 80*s.* per cwt. on the spot, and June-August is 75*s.* *c.i.f.* Dried native whole is 10*d.* per lb. The spot, sprayed whole egg 2*s.* and dried yolk 9*d.* per lb.

**IRINA** is slightly easier, No. 1 Japanese offering at 38*s.* 6*d.* per cwt. on the spot, and *afloat* at 28*s.* 6*d.* *c.i.f.* *afloat* on the spot is 27*s.* 6*d.* per cwt.

**ORAL WATERS.**—Consignments of orange-flower and rose waters have arrived, and spot offers are made for the former at 13*s.* 6*d.* per gall., although 15*s.* and 16*s.* have been mentioned. Rose water is quoted at 10*s.* 6*d.* per gallon.

**ILLS.**—Chinese are about 10*s.* per cwt. lower, plumed offering at 180*s.* and *afloat* at 170*s.* per cwt.; ordinary are 170*s.* and *afloat* 160*s.* *c.i.f.*

**NTIAN.**—Fair French is selling at 65*s.* per cwt. on the spot.

**YEROPHOSPHATES.**—Potash (75 per cent.) is slightly higher at 12*s.*; soda (75 per cent.) is 1*s.* cheaper at 7*s.* 6*d.*, soda crystals offer at 13*s.* 6*d.* per lb.

**AIACOL CARBONATE** is about 1*s.* per lb. cheaper, imports offering at from 29*s.* to 31*s.* per lb. net on the spot.

**EXAMINE** is unaltered at from 16*s.* 6*d.* to 17*s.* per lb. on the spot.

**NOLINE.**—B.P. anhydrous is quoted at 1*s.* 8*d.* and ordinary at 1*s.* 4*d.* per lb.

**AD PRODUCTS.**—There was an all-round downward revision in the latter end of last week to the extent of 1*s.* per ton. Quotations stand thus: Dry white lead, 15*s.*, and white lead in oil, 77*l.* 5*s.*, both for export; red lead and litharge for home and export are 3*s.* for lots under five tons and 61*l.* 10*s.* for lots of five tons and over.

**ME-JUICE** is firm at from 3*s.* 6*d.* to 3*s.* 9*d.* per gall. on the spot.

**INSEED OIL.**—The market has yielded considerably, the fall for spot delivery as compared with the close of last month represents about 10*l.* a ton. Forward positions have dropped in sympathy. Offers being more numerous, the trade demand is more spasmodic, despite the fair quantities which have been again booked lately for shipment to the United States. Trading conditions are improving owing to better railway facilities. The weakness of our market has been partly due to the reductions made in shippers' terms for linseed. The

spot (London) market closes at 88*l.* 10*s.* per ton naked, and Hull at 84*l.* naked.

**MENTHOL** is cheaper, with spot sellers of Kobayashi-Suzuki at 45*s.* per lb. Arrivals amounting to 850 cases menthol and 750 cases oil have taken place from Japan.

**MILK-SUGAR.**—Finest Dutch make is about 5*s.* per cwt. lower, importers offering at from 205*s.* to 210*s.* per cwt., according to quantity.

**ORRIS.**—Italian, which has been selling at cheaper prices of late, has improved somewhat, and for fair Florentine sorts 85*s.* per cwt. is asked on the spot, and to come forward from 77*s.* 6*d.* to 80*s.* per cwt. *c.i.f.* is quoted.

**PEPPER** is steady, with spot sales of fair black Singapore at 67*d.* to 7*d.* per lb.; to arrive, June-August and July-September shipment have been sold at 67*d.* to 7*d.* *c.i.f.* Lampong on spot is 7½*d.*, Tellicherry is 8½*d.*, and Aleppy 7½*d.* per lb. spot. White pepper is steadier, fair Muntok having been sold at 1*s.* 0½*d.* spot and August-October at 1*s.* to 1*s.* 0¼*d.* *c.i.f.*; Singapore is 1*s.* per lb. spot.

**PHENACETIN** is easier, dealers offering at from 16*s.* 6*d.* to 17*s.* per lb. on the spot as to quantity, and at 16*s.* per lb. *afloat*.

**PHENAZONE** is unchanged at from 25*s.* to 26*s.* per lb. on the spot as to quantity.

**PHENOLPHTHALEIN** is about 6*d.* per lb. cheaper, importers offering at 10*s.* 3*d.* to 11*s.* 3*d.* per lb. as to quantity.

**PIMENTO** continues slow, with spot sellers at 5½*d.* per lb.

**POTASSIUM OXALATE** is scarce and spot quotations are higher at 3*s.* 3*d.* to 3*s.* 9*d.* per lb.

**QUICKSILVER** has stiffened considerably this week, as second-hand parcels appear to have been fairly well absorbed. The leading importers thus seized the opportunity to raise their price to 21*l.* per bottle on Monday, and other sellers on Tuesday were asking 21*l.* 10*s.*, at which a fair business was done, with a steadily improving demand. The New York price has been advanced by \$10 to \$90. An entry of 133 cwt. from Japan appears in the London Customs import list. The Board of Trade Returns give the following figures:

	1913	1919	1920
	lb.	lb.	lb.
Imports (May) ...	31,360	19,351	374,677
Do. (Jan.-May) ...	2,162,062	938,100	1,501,432
Re-exports (May) ...	202,125	136,275	62,550
Do. (Jan.-May) ...	1,115,181	545,208	936,932

**QUININE.**—The report that the price of quinine sulphate had been reduced by the makers last week proved to be unfounded, no change whatever having been made, the price of sulphate from the principal distributors remaining at 4*s.* 1*d.* per oz., at which it was fixed in February last. In the dealers' market there is little available, and probably 4*s.* 8*d.* per oz. would have to be paid for odd lots of sulphate. The Board of Trade Returns for May give the following figures:

	1913	1919	1920
	oz.	oz.	oz.
Imports (May) ...	83,707	17,896	290,143
Do. (Jan.-May) ...	1,350,592	1,253,792	2,105,470
British exports (May) ...	123,644	185,040	268,311
Do. (Jan.-May) ...	518,375	406,747	1,182,104
Re-exports (May) ...	7,000	189,869	25,492
Do. (Jan.-May) ...	242,367	1,198,927	271,842

**SACCHARIN** is about 2*s.* 6*d.* per lb. higher from British makers, 550 pure being offered in small lots at 147*s.* 6*d.* per lb., duty paid. The Board of Trade Returns give the following figures:

	1913	1919	1920
	oz.	oz.	oz.
Imports (May) ...	183,180	480,316	86,868
Do. (Jan.-May) ...	344,561	1,068,479	409,033
Home consumption (May) ...	173,412	27,795	85
Do. (Jan.-May) ...	481,519	161,441	13,715
Re-exports (May) ...	15,952	14,944	62,672
Do. (Jan.-May) ...	53,366	15,533	310,711

**SAFFRON.**—Stocks are said to be short, and this week an increase of 5 pesetas at the source is reported. Spot quotations for B.P. range from 65*s.* to 72*s.* 6*d.* per lb., the latter for finest Valencia.

**SALICYLATES** remain unchanged, salicylic acid B.P. powder offering at from 3*s.* 4*d.* to 3*s.* 5*d.*, and for small

parcels 3s. 6d. to 3s. 9d. per lb. is quoted. Soda salicylate B.P. crystals offer at 5s., and powder at 4s. 9d. to 5s. per lb. as to quantity.

**SANTONIN.**—A small consignment of six cases has been received by the usual agents in London, but, of course, it will be quite insufficient to supply the large demand. The official prices will probably be fixed next week.

**SHELLAC** is dearer, with sales at from 595s. to 610s. per cwt. on the spot for usual standard TN Orange quality, at which business has been done; cakey AC Garnet is 570s. and I.G. 520s. Futures show little change, the sales including August at 575s. to 585s. and October 520s. to 535s. to 540s.

The shipments from Calcutta during the second half of May (including button lac) were as follows: To the U.K., 2,800 cwt.; to U.S.A., 5,000 cwt.; to the Continent, 300 cwt.; making the total for the fortnight 8,100 cwt., and for the month 21,300 cwt., compared with 27,000 cwt. for the same period last year.

**SILVER NITRATE** is considerably lower following a sharp decline in the price of silver. The following prices for crystals are based on the current price of 45½d. per oz. for metal: In quantities of 25 oz., 2s. 10d. per oz.; 50 oz., 2s. 9½d.; 100 oz., 2s. 9d.; 250 oz., 2s. 8½d.; 500 oz., 2s. 8d. per oz.

**SODA HYPOSULPHITE** is firmer on spot, quotations ranging from 39s. to 47s. 6d. per cwt. for pea crystals, according to quantity.

**SODA SULPHITE** is firmer at 28s. to 35s. per cwt. for recrystallised, for spot lots.

**TANNIC ACID** is about 6d. per lb. dearer, importers quoting *levisse*. B.P. at from 9s. 6d. to 10s. per lb. on the spot.

**TARTARIC ACID** meets with a fair inquiry at 4s. per lb. for either powder or crystals.

**TURPENTINE.**—The recent ease has been chiefly confined to near positions, as there is a confident feeling that, with railway conditions improving across the Atlantic, supplies of new-crop spirit will be coming along a little more freely in the near future. The difference in value between near and distant positions seems quite likely to be reduced further. There is much reluctance among dealers on this side to make forward offers pending developments in the American trade, and owing to the idea that the trade demand is likely to be considerable later in the year when the market is established on a more settled basis. Spot (London) prices during the week have declined 2s. to 3s. per cwt., closing at 173s. per cwt.

**WOOD OIL.**—Best Hankow is quoted at 133s. per cwt. and Hong Kong at 120s. on the spot.

### Essential Oils Market.

THE PRICES of essential oils on the whole remain unchanged, although with an improving French exchange a firmer tendency is noticeable among articles in request. Reports from various centres on the crop prospects are coming forward, but forecasts of the oil yield are inclined to be conflicting in regard to certain oils. Coriander oil is lower following arrivals from the Continent, and clove oil is cheaper following the spice, with second-hands inclined to shade distillers' quotation. Cedarwood is scarce on the spot and firmer. Geranium also is a turn firmer. Cassia is unchanged on the spot, but lower quotations are made for forward delivery. Prices of synthetics are practically unaltered, and although considerable arrivals are announced importers explain that these are in fulfilment of contracts. Coumarin is unchanged, but some holders appear to be selling well inside current quotations.

**ANISE, STAR,** is quiet, with spot sellers of "Red Ship" brand at 4s. 4½d. per lb.

**BAV** is in limited supply, and from 30s. to 32s. 6d. per lb. is quoted this week.

**BERGAMOT** has been in greater request this week. The spot price is unchanged at from 36s. to 38s. per lb. for 37 to 38 l.a.

**BOIS DE ROSE (FEMELLE)** is scarce on spot, although the price is unchanged at 50s. to 55s. per lb., according to source.

**CEDARWOOD** is quoted at 3s. 9d. to 4s. per lb., but there are spot lots to be found at slightly under.

**CINNAMON-LEAF.**—Spot sellers of Ceylon quote 11d. per oz., and for June-July shipment 10d. c.i.f. has been paid.

**CITRONELLA.**—No changes in prices are to be recorded for either the Ceylon or the Java. The former on spot is quoted at 3s. 6d. to 3s. 10d., and Java 6s. to 6s. 3d.

**CLOVE.**—English distillers offer at the lower price 17s. 6d. per lb. for finest, and from 16s. 6d. is quoted for second-hands.

**CORIANDER.**—Fair arrivals of foreign distilled oil are reported, and spot offers are made of B.P. quality at 1 per oz. in one direction, which is well inside the figure quoted recently.

**CUBES** is quiet, about 60s. per lb. on spot being mentioned and 55s. c.i.f.

**EUCALYPTUS.**—There appear to be fairly good spot stock but no demand is in evidence, and from 2s. 7d. to per lb. is mentioned. *Citriodora* is offered on spot at 2 per lb. An arrival of 250 cases eucalyptus oil has taken place at Hull.

**GERANIUM.**—As a result of the improvement in the French exchange firmer prices are mentioned for Bourbon, and the lowest quotations appear to be around 42s. to 42s. 6d. per for spot, although 45s. has been mentioned.

**GINGERGRASS.**—Up to 22s. per lb. has been quoted, but the average figure appears to be unchanged between 21 and 21s. for the "insoluble" variety.

**LAVENDER.**—It is stated that the heat and drought have adversely affected the prospects of the new French crop which is well advanced, but it will be small. The first of a new oil will be forward about September. There are good supplies of 35 to 36 per cent. ester value on spot, for which 40s. to 42s. per lb. is quoted. Up to 45s. per lb. is mentioned, according to ester.

**LEMONGRASS** remains slow of sale at 8s. 6d. to 9s. per lb. on spot, and at 8s. 3d. to 8s. 6d. c.i.f.

**LEMONGRASS** is dull at 1s. 2d. per oz. for Cochin on spot.

**LINALOE.**—Mexican has been arriving in fair quantities and the spot price is about 37s. per lb. Forward offers made at 35s. per lb.

**MANDARIN** is in fair demand. Spot prices show considerable variation, but 60s. per lb. is about the figure. Forward quotations are dearer.

**MINT.**—The improvement noted last week has not been maintained; prices have declined about 6d. per lb., with sales of Japanese dementholised (Kobayashi-Suzuki) at 10s. 3d. per lb. Large arrivals have taken place in London this week. It has been stated that a Japanese combine is operating with a view to price maintenance; report, however, has not yet been confirmed.

**NEROLI.**—The high prices for French referred to last week (*C. & D.*, June 5, p. 90) are reflected in firmer prices for the Italian product, which is, however, irregularly quoted from 15s. 6d. to 30s. per oz. for bitter bigarade being mentioned. Spanish bigarade is offered at 19s. per oz.

**ORANGE, SWEET.**—West Indian is unchanged on spot 37s. 6d. to 40s. per lb. and Calabrian at 55s. to 60s. per lb. A report from a recent visitor to Jamaica states that rain has fallen there for several months, and, as a result, orange crop is expected to be below the average.

**PATCHOULI** is unchanged on spot at about 90s. per lb. 88s. now appears to be an inside price. A report from Penang states that up to 115s. has been mentioned, the fall in the value of silver will react upon the price quoted for Indian oils.

**PEPPERMINT** is quiet, and prices are unchanged at 42s. to 42s. 6d. for "Wayne County," and H.G.H. at 67s. to 68s. per lb., London terms. Mitcham oil has been sold at 1 per lb. With regard to the last-named, it is stated that year the acreage of peppermint has been increased.

**PETITGRAIN.**—Paraguayan is in limited supply, and spot prices are inclined to harden up to the higher price mentioned last week—33s. per lb.

**ROSEMARY.**—Spanish is offered at 6s. per lb. afloat, the spot figure being higher—about 7s.

**SPIKE.**—Preparations are being made in Spain, according to reports, to increase the output of spike oil. Up to the end of May rain was badly wanted, and since then this has come, with what results has not yet been stated. The lowest spot price is 12s. 9d. per lb., which appears to be an inside figure, from 13s. 6d. to 14s. being mentioned. French is unchanged in the neighbourhood of 16s.

The following synthetics are included in the weekly arrivals: bromstyrol (Germ.), 257l.; citral (Holl.), 25l.; geraniol (Holl.), 422l.; geraniol formate (Holl.), 23l.; heptropin (Holl.), 276l.; terpineol (Fr.), 154l.

### German Drug and Chemical Markets.

The June report of a leading Hamburg wholesale drug house begins with the statement that the appreciation in value of the German mark is being followed throughout the world with the greatest interest. Since the end of January the mark has increased fourfold in value compared with the lowest quotation. However welcome this improvement may be, the unfortunate fact remains that in consequence of



considerable fluctuations in the exchange the whole of Germany has assumed an intensely speculative spirit, which is bound to produce the most undesirable consequences. Thus the sudden rise in value of the mark has paralysed the whole of the export trade, as quite impossible to adapt quickly enough the home market to the quotations on the world market. In consequence of the tariff policy wages and salaries are now not only elastic, particularly when the question of a rise arises, while the fluctuations in the prices of goods are great in consequence of the unprecedented situation. It is scarcely possible to calculate the relative ratio of purchase and sale prices. Owing to this uncertainty in prices, coupled with the uncertain political outlook, the home market has ceased to buy. This implies a relapse, while the international situation is aggravated by limitations of output and difficulties in effecting payments. In the drug trade the tendency has also been to refrain from transactions, with the exception of those few articles which are urgently required to meet actual requirements. The following quotations are in marks per kilo.:

**ACID** (80 per cent.) is very firm at m.15, since the demand is greater than the supply.

**AMMONIUM CHLORIDE**, first quality white, 98/100 per cent., has been extensively purchased by foreigners, especially by the Netherlands, and is still in demand. It is quoted at m.12 for the home market and at m.14.50 for export. Manufacturers' prices are practically nil.

**ANILINE-ROOT**.—Small amounts are in stock at m.25.

**ALCOHOL** has further declined to m.300.

**ALCOHOL** remains at m.300, as no new offers are forthcoming.

**ALDEHYDE**, almost free from chlorine, for foodstuffs, has further declined to m.150, as larger supplies from the Netherlands are now coming in.

**ACID** has dropped to m.78, at which price it seems unlikely to buy.

**ANILINE (PURE)**.—Supplies from manufacturers are very obtainable, while dealers offer at m.925. This price is very firm, as it is in large demand by foreign buyers.

**ANILINE SODIO-BENZOATE** and **CAFFEINE SODIO-SALICYLATE** remained steady at m.700.

**ALCOHOL** is still unobtainable.

**ACID** has declined slightly to m.150, at which price it is, as apparent from the scanty offers coming from the Netherlands, while the few German manufacturers are completely out of their stocks. The importation of citric acid is very small.

**ALCOHOL**, genuine, is obtainable in small amounts at m.300.

**ANILINE** is one of the articles most in demand by foreign buyers. The price has fallen slightly, to m.725.

**ACID OF TARTAR**, in conjunction with the fall in price of citric acid, declined to m.55. Supplies are not very plentiful.

**ALCOHOL** is obtainable only in very small amounts at m.300.

**ANILINE** is obtainable at m.15, but supplies are not plentiful.

**ANILINE**.—The price was recently raised by the manufacturer to m.35, and it is one of the articles which is most in demand and at the same time extremely scarce. The latest quotation of m.32.50 is very advantageous.

**ACID** has declined to m.900, but supplies are scarce.

**ANILINE**.—Rio is readily purchased at the exceptionally favourable price of m.525.

**ALCOHOL**.—Ordinary quality is offered at m.60.

**ALCOHOL** has declined to m.225. Both supply and demand are restricted.

**ALCOHOL**.—In spite of the small local stocks the price has declined to m.1,100.

**SUGAR** is in constant demand, but extremely difficult to obtain owing to the shortage of milk and of coal. On the other hand, about 5,000 kilos. of crude milk-sugar are available at m.22.

**PEPPERMINT OIL**, twice rectified, is difficult to obtain, and the price has advanced to as much as m.600.

**ANILINE** has declined to m.18 gross for net for cut, and m.22 gross for net for powder. No fresh supplies, however, are expected.

**NATURAL BEANS**.—The price has decreased to m.50.

**ANILINE ACID** has been extensively purchased at the lower price of m.75.

**ANILINE-ROOT** is being extensively purchased in the West Indies at the reduced price of m.320.

**SODIUM BENZOATE** has declined to m.70 owing to forced sales by speculators, at which price it is worthy of attention.

**ANILINE OIL** has declined in price to m.90.

**ANILINE ACID**.—Manufacturers have repeatedly lowered their prices in order to adapt it to foreign quotations.

consequent on the rise in value of the mark. Nevertheless, large amounts are not being supplied. Exports are brisk. The present price is m.67 for granular and m.63 for powder.

**VANILLIN**, 100 per cent. chemically pure, is in large demand, while scarcely any supplies from manufacturers are forthcoming.

## Rotterdam Market Report.

The following report is from Rotterdam under date of May 29:

**COCONUT OIL**.—The market is quiet, and only small transactions have taken place. Loco Java, in barrels, about 103fl.; in tins and cases, about 101fl.; refined coconut oil has fetched as much as 115fl. According to our latest cable report from Colombo (25/5) for ordinary Ceylon coconut oil 92l. is demanded, c.i.f. Holland.

**COTTON-SEED OIL**.—American is unchanged, with nominal quotations (New York: yellow for July, May 22, \$19; May 29, \$19; crude for May, May 22, \$18.85; May 29, \$18.85). On the other hand, England is better disposed. For loco-butter oil, prime summer white and prime summer yellow, offers at 130fl. are likely to lead to business. Prices for discharge in England are 120fl. to 130fl.

**DAMMAR GUM**.—Of the 240 cases and 89 bales, representing a total weight of about 26,000 kg., offered on May 28, 150 cases—about 10,000 kg., were sold. On June 8, 744 baskets of copal are arriving, of a total net weight of about 52,750 kg., per the s.s. *Dardanus* and s.s. *Ratjan*.

**EXTRA OLEO OIL** on the water was quoted 152fl.; for prompt delivery, 145fl.; second quality, 130fl.; and third quality, 125fl.

**JAVA INDIGO**.—No business transacted.

**KOLA**.—On May 27, 61 bales, about 4,600 kg., ex s.s. *Tabinan*, were sold.

**LINSEED**.—The market was quiet, and prices declined somewhat for La Plata ware, of which some shipments at present on the water were dealt in at 849/845fl. c.i.f. Amsterdam, and for May-June delivery at 840/830fl. c.i.f. Amsterdam/Rotterdam. Indian linseed remained unchanged, without any transactions taking place. In Antwerp stocks of available Calcutta linseed fetched 225fr. April-May delivery 204fr.; La Plata, available, 204fr., March-April 215fr., April-May 204fr.

**LINSEED OIL**.—During the past week the market was unsettled, and prices were scarcely altered. There was a good demand for June deliveries, while sales for later dates were more difficult to effect. On the whole the market is firmer, and larger transactions are taking place. The latest quotation for prompt delivery, barrels included, with export licence f.o.b. Rotterdam, is 114.50fl. to 115fl.

**MAIZE**.—Price unchanged, with no business.

**NUTMEGS**.—Very quiet, both for spot and later delivery. Prices remained unchanged: for June delivery, at 67½ cents; September, 65½ cents; December, 64½ cents.

**OX FAT**.—Prices declined without leading to any important business.

**PALM KERNELS**.—According to London reports the market is quiet. Local and on the water were quoted 36l., June-August, July-September, 36l. 10s., c.i.f. Liverpool or Hull.

**PALM OIL**.—The market was quiet, with slightly lower offers. Dutch consumers were interested only in the finer qualities. Since the last report 4,949 barrels have arrived in Liverpool, while 2,900 barrels are on the water.

**PEPPER** is firm.

**PIMENTO and CLOVES**.—Prices unchanged, with no business.

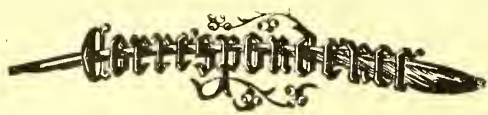
## New Scale of Sodium Nitrate Prices.

Following the news of the extension of the existence of the Nitrate Producers' Association comes the announcement of a new fixed scale of selling prices. According to a telegram from Valparaiso received by Thomas Aikman, Junior, the Association have decided to sell up to 1,100,000 tons on the following basis:

100,000 tons	June	...	...	...	15/6 per quintal
100,000 "	July	...	...	...	15/6 " "
100,000 "	August	...	...	...	15/11 " "
100,000 "	September	...	...	...	16/3 " "
100,000 "	October	...	...	...	16/7 " "
100,000 "	November	...	...	...	16/10 " "
100,000 "	monthly Dec.-April	...	...	...	17/- " "

The directorate, in order to create confidence among buyers to purchase for future delivery, announce their intention to include a "falling" clause on all future sales. This clause will protect the buyers on all nitrate not paid for up to the date of any eventual reduction in price by the Association becoming effective. In addition, they agree that the protection on all nitrate sold for delivery up to August 31 shall be effective to that date irrespective of whether it has been shipped and paid for. The "falling" clause will be allowed to apply to sales already made for delivery after June 1, 1920.





### The Pharmaceutical Society of Ireland.

SIR,—The report of the special meeting of the Pharmaceutical Society of Ireland regarding the present Government of Ireland Bill was illuminating reading to those specially concerned. Many of us never paused to consider how the proposed partition of our country would affect us as a professional body, but we were disagreeably surprised and concerned when the plain facts were so ably set before the Council by our law agent. . . . The proposed partition of the country into two independent States will affect many other bodies and more powerful commercial interests more disastrously than it will affect the Pharmaceutical Society of Ireland. The position as it stands in the Bill is, in my opinion, idiotic. Better as we are. Is it yet too late, while recognising the apparent determination of the Imperial Parliament to force on us some measure of self-government, to obtain a practical and workable measure? Why could two Councils not be created, one for the six north-eastern counties and one for the remainder, with defined powers of legislation? Also a Parliament for the whole of Ireland on the Canadian or Australian system to legislate on all questions where it is inadvisable to have any divergency of procedure. If we are going to have Home Rule it is surely statesmanship to try and get something which will not work havoc and produce chaos in the everyday life of the country. Judging from the report of the Council-meeting, the new scheme will do that with the Pharmaceutical Society. I hope members of the Society will take the matter up and give all the assistance they can to the councillors in the unfortunate predicament we find ourselves in.

Belfast.

Yours faithfully,

R. GORDON MCKINSTRY, M.P.S.I.

### East Anglia Representation.

SIR,—I should be glad if Mr. Body will explain precisely what he means by the following sentence in his letter published in the *C. & D.*, June 5, p. 91, "and there would appear to be no reason why East Anglia should not secure representation on another occasion." May I remind Mr. Body that for the last sixteen years East Anglia has been very ably represented on the Council, "despite the absence of territorial representation as a statutory condition"?

EAST ANGLIAN PHARMACIST. (8/6.)

### Local Associations Executive's Fate.

SIR,—It is interesting to place Mr. Ridyard's latest statement side by side with the passage quoted by me from the Pharmaceutical Council's report:

Mr. Ridyard,  
*C. & D.*, June 5, p. 92.

Pharmaceutical Council  
Report.

I must insist that the Pharmaceutical Society—whatever the result of any action in the Chancery Division or elsewhere—could not act as an employers' association under the Whitley scheme.

The power of the Society to deal with industrial organisation on behalf of employer-pharmacists has been questioned in connection with the Industrial Council movement. The Council have therefore arranged for a friendly action to be brought in the Chancery Division with a view to removing any doubts that may exist as to the legality of the Society's actions.

Mr. Ridyard precisely states my case, and his quarrel is not with me but with the Pharmaceutical Council, who are, on his own showing, wasting the Society's money on a futile law action. Meanwhile the *C. & D.* (June 5, p. 72) records that that "self-contained" and "independent" body, the Local Associations Executive, has been elected a committee of the Council. Therefore, the Society's officials do its work, and its decisions must

come before the Council for confirmation. If Mr. Ridyard is still unable to see the absurdity of the position, as we suppose; if we can, the Executive Committee of the Amalgamated Society of Pharmacists, Drug and Chemical Workers elected a committee of the Council. sane men, they would not agree to this unless they were satisfied the Council was likely to endorse their decision. In that case, the Amalgamated Society would have officials and machinery of the Pharmaceutical Society at its disposal, and Mr. Ridyard would fight to change its position very quickly or discontinue his subscription. Finally, I would appeal to Mr. Ridyard, in replying, to consider the advisability of depending on logic rather than on the discredited method of abusing the attorney.

Yours faithfully,

D. N. FULLERTON

267 Stockport Road,  
Cheadle Heath.

### Medical Service Report.

SIR,—The interim report of the Consultative Council on Medical and Allied Services is very instructive as to the attitude of the authorities to the pharmaceutical qualification. In the public Press, while giving details of the recommendations for establishing primary health centres, including dispensaries, there is no mention of pharmacists as such to take charge of them; and in the report itself it barely mentions them with a proposal for a committee to report on the functions of the pharmacist and the qualification necessary. This last point is very important, as it ignores the fact that there is already a legal qualification, and more or less intimates that a fresh system is anticipated. Taking this in conjunction with the unsatisfactory position of pharmacists under the Dangerous Drugs Bill if passed as at present drafted, it shows that the Pharmaceutical Society is already reaping the disadvantages of the by-law system, and the new President and Council will have a crop of similar incidents to contend with that may well overwhelm them. Looking at the number of semi-public services already instituted apart from the big hospitals and infirmaries, such as cottage hospitals, nursing homes, maternity hostels, town-hall clinics, infant welfare centres, and so on, all of which supply drugs in one form or another to their patients, I venture to surmise that in not one out of a hundred do the medicaments pass through the hands of a qualified pharmacist, and it is this condition of affairs which will carry more weight with a commercial body than any of the feeble protests made by the Pharmaceutical Council.

Yours faithfully,

INTERIMER. (199/1)

### Trade Unionism.

SIR,—I am afraid that Mr. J. M. Johnson (*C. & D.*, May 29, p. 77) has not got a grasp of the fundamental rules of conduct for trade-union members. He will undoubtedly, later that the ordinary member's chief duties are to pay his subscriptions and levies regularly, do as he is told, and not to worry the officials with objections. The qualified member, being in the minority, of course, a mere nobody except for his ratio of contribution, but when the unions are thoroughly organised there is little doubt that he would be called out to support a strike, say, in favour of a wet-counter hand who had to work one hour too long in Liverpool or Manchester. On the other hand, it is to be borne in mind that the unions would not have an easy task, as it is one thing to picket a large store with several hundred hands, and quite another to do the same to a few thousand small pharmacies. We may even see the Gilbertian situation of a manager, who combines the faculties of assistant and errand-boy, picketing his own branch and stopping himself going to work. I agree with Mr. Johnson that the publication of statistics relating to turnover and profit would be a good thing in many ways, and, finally, I think it would show that the ordinary retail pharmacist has the smallest turnover and least gross profit of any shop in the street. And it is likely to remain so as long as the pharmacist is content to lock up his capital in patents which barely pay for shelfage rent, and in drugs which he doles out in grains for Insurance work without a vestige of profit for his investment. In fact, a simple calculation of allowance for wastage and breakage



would not be difficult to show that in a certain time capital would eat itself up and automatically disappear. Is it to be wondered at, then, that neither he nor employes get a satisfactory return for their labour?

Yours faithfully,

NON-UNIONIST. (29/5.)

#### Wages in the Drug-trade.

"Scotus" (*C. & D.*, June 5, p. 92) is evidently the clouds, dreaming visions. When he speaks of a 7*l.* weekly as being very nominal he makes one wonder if he ever thinks of the employer side. Is a chemist's business in the market, purchase about 850*l.* Figures were carefully gone into which show that the purchaser, if he maintained the return, would be in receipt of an income not exceeding 4*l.* 10*s.* This is the normal condition in hundreds of pharmacies to-day. I venture to say that not 5 per cent. of the existing pharmacies could pay these suggested wages, however willing they might be. Is "Scotus" aware of the existence of an iniquitous Act called the Licensing Act, which will not permit of a percentage increase on the pre-war profit? Does he ever think over the profits on the 1*s.* 3*d.* patents? Let me tell "Scotus" from my own personal experience. I went carefully through the Act and I found that if I paid the suggested union wages my own income would scarcely reach 30*s.* weekly. "Scotus" states, "In every other branch of trade the workers are paid substantially better." I presume he means a similar trade—i.e., shopkeeping. I should be glad to hear of these. I am writing from the South of England and here chemists' assistants are receiving from 40 to 50 per cent. higher salaries than those usually paid in other shops. I find, generally speaking, that 3*l.* 10*s.* is regarded as "excellent remuneration." If "Scotus" will examine the advertisement pages of the *D. Supplement* he will frequently find something to his kind: "Locum; sold business; disengaged so and so." He is better off as a locum, and if "Scotus" is paid at the "nominal" figure of 7*l.* weekly he will be well advised if he stays where he is, puts his back to the wall, turns up to time, and is not afraid of a few minutes' overtime. No; pharmacist employers cannot meet these salaries, and this is the chief reason. Certain little-shop owners "cut" our portion of the business to attract people to their shops and "have" them on the premises. The chemists' departments are the "swings" to attract the people to the "roundabouts" on which enormous profits are obvious from a glance at their advertisements. The remedy for this lies with the employes and the union. Stop this; the wage rise will automatically

Yours faithfully,

ANGLO. (7/6.)

#### Law and Logic.

—Is it not time that the body pharmaceutic were obliging themselves to secure legislation which would make it an offence punishable by law for a person to give advice regarding venereal diseases from any but a qualified medical practitioner? Why, if it be illegal for an unqualified to give advice, should it not be made an offence to ask for advice from the unqualified? Surely a perverted example of law and logic! Chemists as a body have been busy or hankering after this class of work for the sake of pecuniary gain; nor, on the other hand, have they any intention to be made the victims of a prosecution through wilfully letting a "Yea" or "Nay" escape their lips in answer to some inquiry relative to the merits or demerits of specifics. Another matter requiring similar legislation is business in drugs for criminal purposes. It is to the credit of pharmacists in general that prosecutions regarding the supply of drugs for illegal purposes are few and far between; but why should the chemists be content to countenance such business not being set up by heavy legal penalties against the would-be traffickers? The common-sense view of law is surely that which has been confirmed must not be negated, and legal penalties should be preventive rather than punitive in their effect upon the public—in fact, penalties of a punitive nature undoubtedly act as deterrents.

Yours truly,

SCOTUS. (5/6.)

#### Insurance Dispensing Hours.

SIR,—The remarks of your Kirkcaldy correspondent (*C. & D.*, June 5, p. 84) on the compulsory attendance of panel chemists on public holidays require the serious consideration of all associations, as these conditions of hours are not confined to Scotland. A further and still more drastic regulation is that which states that scripts marked "Urgent" should be dispensed without delay at any hour outside the regular business hours, and if this is insisted on it means that every panel pharmacist who has not a qualified assistant to relieve him is virtually sentenced to a permanent C.B. Moreover, if the Forty-eight Hours Bill becomes law the employment of a qualified assistant will not release him, and he will have to do all late and holiday duty himself. This brings us back to the rota system, which will probably have to be adopted in all areas as the only solution of the difficulty.

Yours faithfully,

SINGLE-HANDED. (84/5.)

#### Legal Queries.

*R. S. L.* (1/6).—Under Section 2 (2) of the Venereal Disease Act (see *C. & D. Diary*, 1920, p. 288) you may not supply preventive medicaments properly labelled. To supply these without suitable directions would be dangerous. The Act does not apply to verbal directions; but such directions are impracticable, as the time taken to impart the information would be considerable. The Act gives power to the Ministry of Health to allow public authorities to do what private persons may not do. As the penalties are exceptionally severe you should make it clear to the local authorities that you are not going to risk prosecution.

*A. J. H.* (31/5) refers to the *C. & D. Diary* for 1920 under the head "Death Duties," where it is stated that legacy duty is payable by persons who inherit any share exceeding 1,000*l.* of residue of personal estate exceeding 15,000*l.*, and he asks if this is correct, and if residues of estates of less than 15,000*l.* are free from legacy duty. [The statement in the *Diary* is correct. It embodies, but necessarily in a very condensed form, the law on the subject contained in Section 58 of the Finance Act, 1910, and the sections of prior Acts therein referred to. The exemption, as is indicated, refers to such residues taken by way of legacy by the husband, widow, parents, or children of the deceased. As to liability to legacy duty, the rule is that unless some exemption is expressly allowed it is payable on any money, share of residue of personal estate, except leaseholds, furniture, plate, etc., to the value of 20*l.* or more bequeathed by the deceased, the rate of duty depending on the degree of relationship of the legatee to the deceased.]

*Church* (74/5) asks as to the return he must make to income-tax in this case. His wife is a chemist and assists him in his shop; for her work as such chemist he pays her 200*l.* a year, and she has besides an unearned income from War Loan of 27*l.* 12*s.* 6*d.*; they have one child who is under two years of age. He wishes to know if his wife's earned income is to be added to his. [Under the Finance Bill now before Parliament his position will be: his wife's income will be added to his for the purpose of getting the total income upon which he is to be assessed. Then from this income there will be an abatement made of 225*l.* An allowance will also be made of 36*l.* for the child, unless the child has, in its own right, an income exceeding 40*l.* a year. Further, in calculating the income of the wife a deduction may be made from her earned income equal to nine-tenths of such income, provided this does not amount to more than 45*l.*; that is, 45*l.* may be deducted in this case. And as to the 200*l.* which "Church" pays for his wife's services as a chemist, we think that he ought to claim that as a deduction by way of trade expense in making out the profits from his business, just as he would in the case of any other employé, although there is no express provision in the Acts for such allowance.]

## Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*Agricola* (31/5).—The dispensing remuneration varies from 2s. to 3s. 6d. per hour, according to qualification (statutory) and experience. In your case you would appear to come on the lower scale.

**IODINE AND BORIC LINT.**—*Sergeant-Major* (25/5) asks: "What was the compound formed when an assistant of mine applied tincture of iodine and then hot (wet) boric lint to a cut in a lady's arm? The lint turned black immediately." [The black coloration would seem to be due to the presence of starch. Lint can be of two varieties, linen or flax and calico or cotton. Both are impregnated with starch, the latter in greater proportion, and more easily showing its presence when tested in the usual laboratory way with iodine solution. If the iodine solution is strong, naturally the colour becomes black, really very dark blue, and even green. Boric acid does not affect iodine. Present-day lint is cotton lint, and on the addition of iodine does not give the blue colour indicative of the presence of starch, but on the addition of an acid (hydrochloric) the yellow stain turns black. Should boric acid be in the lint the blackness appears at once. When this colour is more closely examined it is a very deep mahogany, and has tinges of blue in it. Experiments show that the effect is caused by the presence of dextrin in the deep "erthyro" state, which has been rendered white by bleaching agents. The lint is strongly acid to litmus, and after a while liberates iodine from a solution of potassium iodide, which on adding mucilage of starch gives a faint blue colour. The colour commonly called iodide of starch would tend to minimise the causticity of the iodine and lessen the fear of iodism.]

*M. J. F.* (2/6).—**PRELIMINARY EXAMINATION.**—Your case does not come within the rule governing war concessions to pharmacy students, and the Council only has power under its by-laws of insisting on your Preliminary certificate covering all the specified subjects. The missing subject must be taken before registration. You may get a concession in recognition of the hours you have already been apprenticed if you state the conditions at the time of registration. The power to recognise the period already spent is in the hands of the Council, subject to certain provisions.

*F. M.* (3/6).—**TESTING SACCHARIN TABLETS.**—The methods of assaying saccharin tablets are given in *The Chemist and Druggist Diary*, 1919, p. 89.

*R. M.* (7/6).—**SWEATING POWDERS.**—The following formulas may be used in place of pulv. ipecac. co.:

### I.

Pulv. antimonalis gr. ij.  
Pulv. ipecac. co. gr. viij.  
Ft. pulv. Take in gruel  
and follow by draughts of  
hot gruel.

### II.

Potass. nitrat. ... gr. x.  
Sodii salicyl. ... gr. xv.  
Ft. pulv.

*T. H. V.* (8/3).—**HAIR-TONIC.**—The following is a formula for the type of hair-tonic to which you refer:

Glycerine of borax ... 5iij.  
Rose-water to ... 3viij.

Mix.

*P. G. J.* (7/6).—**DISPENSERS' SALARIES.**—The salaries now being adjusted have the war-bonus merged into the salary stated. The basis of the war-bonus was increased cost of living and the general decrease of the unit value of the sovereign. Information is now to hand that the Minister of Health has sanctioned the figure mentioned in our reply on the Poor-Law salaries (*C. & D.*, May 22, p. 100).

*G. E. T.* (5/6).—**COPYING-GRAPH.**—The original p (expired) gave the proportions of the ingredients as:

Glycerin	...	...	4 parts
Water	...	...	2 parts
Gelatin	...	...	1 part

Glue may be used in place of gelatin. Improved made since then are the addition of white powders as whiting, barytes, or china clay, so that the wa is better seen and does not sink into the compos so readily. The ink used is a solution of methyl- (two parts) in a mixture of spirit (two), water. The matter to be reproduced in facsimile shoul written on well-glazed paper and transferred to the by placing the sheet of paper, face downwards, e upon the pad and rubbing with the hand. Allow paper to remain upon the pad for about five mi then pull it off carefully.

*A. McC.* (1/6) asks: What is the matter with Pom. having peculiar short, hard, dry, nasal cough. a fit of these coughs it gives a slight sneeze, throws out a very minute quantity of clear muc the form of minute dew-drops or spray. At the time a little mucous appears to reach the mouth is swallowed at once. Cough appears to come fro back of the throat or nose and is almost contin except when animal is asleep. If the throat is pressed at the larynx the cough ceases for the [The dog seems to be suffering from pharyngo-lary with obstruction of the Eustachian tubes. Contin inhalation and apply a mustard-poultice to the Give the following electuary three times a day:

Ext. belladon	...	...	gr. j.-ij.
Camphor.	...	...	gr. iij.-v
Theriac.	...	...	q.s.

M.

Mist. heroin co.	...	...	mxxv-xx
------------------	-----	-----	---------

Every two to four hours, according to the sever the spasms or fits of coughing.]

*W. G. W.* (8/6).—Mellor's "Modern In Chemistry" (Longmans) and Senter's "Text-b Inorganic Chemistry" are favourite text-books for maceutical students, and would probably suit yo quirements.

*K. & Co.* (1/6).—**SOLUBLE OIL.**—A formula f was printed in the *C. & D. Diary*, 1919, p. 91, whic the lines upon which soluble oils are prepared. h are employed as the chief constituent of drilling Some we have examined are compound in natur a chemist who has experimented in the manufac drilling oils informs us that there is an art in k them which is a trade secret.

## Retrospect of Fifty Years

Reprinted from "The Chemist and Druggist," June 11/87

### Council Election Tactics.

Manchester is jubilant. Not for the first time rough island story has she matched herself agai England, and taught her opponents tactics, throug Boldly she asserted her claim to be represented a Council, and asked for two seats. Energetical cleverly the members were canvassed, and the res that, much to the surprise of the Conservative g who raised their hands in horror at this unpharmac proceeding, and foretold the defeat of both candid two came in at the head of the poll. The two gela thus elected are eminently fitted for the positio though their personal popularity had much to do th it seems to us that the success of the Manchester Cou should be regarded less as a proof of the victory of principles advocated in their circular than as a triu activity over apathy.



*Slack trade is impossible if  
only people pass your shop  
and the "Mons Man" is  
on view.*

A more convincing, attractive or easier put-in Show could not be devised, neither could any idea appeal to the great general Public with greater strength — hence the enormous and continuous sale of

## ZEPTO PENCILS

you can have one just so long as they are in stock, and practically not an order from our staff of travellers comes to hand without its inclusion. Goes with 6 doz. pencils on our typically generous window display terms.

Per Doz. **5/3** : your Profit **66 $\frac{2}{3}$ %** : **9d.** each  
(P.A.T.A.)



(In fifteen colours).

*An enterprising man  
is most always suc-  
cessful, therefore  
rarely complains of  
the state of trade; he  
laughs while 'others  
bemoan.*

### NOTE

The last parcel of this justly famous Peroxide Face Cream is going fast. It is admitted by all who have once sold it that there is not a single cream that equals it nor sells so freely as

## NYAL'S FACE CREAM

let us therefore send along 3 doz. or so while stock is available—Note, too, the splendid profit.

**10/6** Per Doz.      Per Jar **1/6**

**ACT NOW**



# Hubbuck's Pure Oxide of Zinc

is made by sublimation, and is  
warranted to contain upwards of  
**99.5 PER CENT.**

of pure oxide; in fact the  
impurities are not traceable.

**Thos. Hubbuck & Son, Ltd.**

ESTABLISHED 1765

24 Lime Street, London, E.C. 3.

MANUFACTURERS OF WHITE LEAD, WHITE  
ZINC, PAINT, OILS, COLOURS, VARNISHES, &c.

Australian Office: 34 Queen St., Melbourne.

Sold by the following Wholesale Druggists  
in Boxes of 7 lbs. and 14 lbs. stamped by  
the Manufacturers; also in 1-lb. Boxes and  
1-lb. Glass Bottles:—

Allen & Hanburys (Lim.)	Hirst, Brooke & Hirst.
Ayrton, Saunders & Co. (Lim.)	Hodgkinson, Prestons King.
Baiss Bros. & Company	Hodgkinsons, Clarke Ward.
Bell, Jno., & Co. (Lim.)	Horner & Sons.
Bleasdale (Lim.) (Lim.)	Huskisson, H. O., & Co.
Boots' Pure Drug Co.	Inman's Stores (of Ed- boro').
British Drug Houses (Lim.)	Ismay, John, & Sons
Burgoyne, Burdidge & Co.	Lofthouse & Saltir (Lim.)
Butler & Crispe (Lim.)	Oldfield, Pattinson & Co.
Clay, Dod & Co.	Pinkerton, Gibson & Co.
Cockburn & Co. (Lim.)	Raines, Clark & Co.
Corbyn, Stacey & Co.	Raines & Co.
Dakin Brothers. (Lim.)	Rankin & Borland.
Duncan, Flockhart & Co.	Silversides, R. B. G.
Evans, Gadd & Co.	Southall Bros. & Barel
Evans Sons Lescher & Webb (Lim.)	Sumner, R. & Co.
Ferris & Co.	Taylor, James.
Gale & Co.	Thompson, John (Lim.)
Glasgow Apothecaries' Co.	Willows, Francis, But- & Thompson (Lim.)
Glasgow New Apothe- caries' Co.	Woolley, Jas., Sons & (Lim.)
Goodall, Backhouse & Co.	Wright, Layman & U- ney (Lim.)
Harker, Stagg & Morgan (Lim.)	Wyleys (Lim.)
Harkness, Beaumont & Co.	
Hatrick, W. & R., & Co.	

Barry, E. J., New York.	McKesson & Robbins, N- York.
Carter, Carter & Kilham, Boston.	Muth Brothers & (C- Baltimore.
Finlay & Branswig, New Orleans.	Roller & Shoemal Philadelphia.
Langley & Michaels, San Francisco.	Schiefelin, W. H., & (C- New York.
Lehn & Fink, New York.	Shoemaker, R., & (C- Philadelphia.

**Special Offer** *this issue*

## ACIDS FOR EXPORT

CHLORIDE BARIUM.  
OXALIC ACID.  
FORMIC ACID.  
GUM  
ARABIC.  
GUM  
TRAGA-  
CANTH.

GLUES, GELATINES  
GUMS AND WAXES.

INKS,  
SEASONS,  
FINISHES.  
LOGWOOD  
PRODUCTS.

BORAX.  
BORIC  
ACID.

SODA  
HYPO.

BICHROMATES.  
CHROME OXIDES.

IRISH  
MOSS.

DYE-  
WOOD &  
TANNING EXTRACTS

OILS, CHROME AND  
FAT LIQUORS.

**GOUGH, KIDSTON & CO.**

12 BERMONDSEY SQ., LONDON, S.E.

City Office: 43-45 Great Tower Street, E.C.

Tel. Add.: "Oughidston, Phone, London." Phone: 2029 Hop.

## WENGERS LTD

ETRURIA, STOKE-ON-TRENT

Manufacturers of

CERAMIC COLOURS & CHEMICAL

For the Pottery, Glazed Brick, Glass, and Metal Enamel  
Industries.

OXIDES OF ANTIMONY, ARSENIC, CHROME, COBALT, COPPER, IRON,  
MANGANESE, NICKEL, SMALTS, TIN, TITANIUM, URANIUM, ZINC, &  
Raw Materials, Waterground Bone, Felspar, Flint, Fluorspar, Quartz,  
Stone, Whiting, &c. China Clay and Ball Clay, Prepared Bone  
Ground Carbonate and Sulphate of Barytes. Cadmium Sulphate,  
Selenium Metal. Selenate and Selenite of Soda. Boracic Acid,  
Borax. Bichromates of Potash and Soda.

PRICE LIST AND SAMPLES ON DEMAND

## RAOUL FRERES

can offer to advantage the following:

Acid Salicylic P.B.	Metal pure 100%
" Benzoic P.B.	Pot. Bromid. P.B.
Antipyrin	" Permang. P.B.
Ammon. Bromid. P.B.	Phenazone
Coumarin	Phenacetine
Creosote Carbonate	Pyramidon
Goa Powder	Quinine Hydrochlor. P.
Guaiacol Carbonate	" Sulphate P.B.
Hexamine	Resorcin, pure crystals
Hydroquinone	Soda Sulphite, pea crystals

IMMEDIATE DELIVERY.

6 HOLBORN VIADUCT - - - LONDON, E.C.

Telephone: Central 8728.



*Telephone: Avenue 1098 (2 lines)*

# A. JOHNSON & CO (LONDON) LIMITED.

*Telegrams: "Agenticum, Grace, London"*

*Spot and Forward Delivery:*

Phenazone

Resorcine

Creosote, Pure

Metol

Canada Balsam

Pyrogallic Acid

Tannic Acid, Light

Lactic Acid

Ichthyol Ammon. Subst. Hydroquinone

---

EUCALYPTUS OIL, B.P. QUALITY, ALL STRENGTHS.

EUCALYPTUS AMYGDALINA. EUCALYPTOL.

AUSTRALIAN SANDALWOOD OIL 70 %.

3, GRACECHURCH ST.  
LONDON, E.C. 3

*Branches: Stockholm, Gothenburg,  
Malmö, Copenhagen, Paris, New York.*

# BRITISH DYESTUFFS CORPORATION LIMITED.


Registered



Trade Mark.

Works:

ELLESMERE PORT, HUDDERSFIELD, MANCHESTER.

**GOLD**  **MEDAL**  
LONDON 1913

THE NON-IRRITANT  
**LOCAL ANÆSTHETIC.**  
**NOVOCAIN**

DOES NOT CONTAIN COCAINE.  
*The original preparations as supplied by us  
for the past 12 years.*

**Medical and Dental Tablets  
and Powder.**

*No Home Office Permit necessary*

**THE SACCHARIN CORPORATION LTD.**  
Pharmaceutical Department,  
36, 37, QUEEN STREET, CHEAPSIDE, LONDON, E. C. 4.

*Contractors to:-*  
WAR OFFICE.  
INDIA OFFICE.  
CROWN AGENTS  
for the COLONIES.  
CANADIAN GOVERNMENT.  
FRENCH GOVERNMENT.  
BELGIAN GOVERNMENT.  
ITALIAN GOVERNMENT.  
ETC. ETC.  
BRITISH RED  
CROSS SOCIETY.  
FRENCH RED  
CROSS SOCIETY.

**BENZOATES**

**WORKS**  
LONDON &  
MANCHESTER Phone: London Wall 7781

**SUPERFINE QUALITIES**

ACID BENZOIC B.P.  
AMMON. BENZOATE P.  
LITHIUM BENZOATE.  
SODA BENZOATE P.

**BENZOATES LIMITED**  
76 FINSBURY PAVEMENT  
LONDON. C. 2

Telegrams Hydracetol London





**T. & H. SMITH LTD**  
**MANUFACTURERS**  
 OF  
**MORPHINE, CODEINE**  
 AND ALL OPIUM PRODUCTS.  
**CAFFEINE**

<b>SALICIN</b>	<b>PODOPHYLLIN</b>	<b>ALOID</b>
<b>CAPSICIN</b>	<b>EMETINE</b>	<b>GINGERIN</b>
<b>STRYCHNINE</b>	<b>CHLOROFORM</b>	<b>THEOBROMINE</b>
<b>CANTHARIDIN</b>	<b>JALAP RESIN</b>	<b>SCAMMONY RESIN</b>

*Blandfield Works, EDINBURGH.*      *25 Christopher Street, LONDON, E.C.*      *37 Washington Street, GLASGOW.*

FINE CHEMICALS for Scientific purposes and for College and Technical Institute Laboratories.

PHARMACEUTICAL CHEMICALS of Standard Quality for Manufacturing and Dispensing.

PHOTOGRAPHIC CHEMICALS in bulk or ready packed for retailing.

RADIUM and RADIO-ACTIVE MINERALS.

MINERAL and GEOLOGICAL SPECIMENS and SETS.

TECHNICAL CHEMICALS for Glass, China, Enamel, Varnish, and other manufacturing purposes.

AGRICULTURAL CHEMICALS, Fertilizers, etc.

Contractors to H.M. Government.  
 Price List sent free on Application.

**HARRINGTON BROS., LTD.,**

*Manufacturing Chemists,*

**4 OLIVER'S YARD, CITY ROAD,**  
 Telephone No. **LONDON, E.C. 1.** Telegraphic Address: **6155 London Wall.** SICCATIVE LONDON.

**EPSOM SALTS**

*Druggist & Commercial Qualities.*

**ZINC SULPHATE**

*(White Copperas).*

**ZINC CHLORIDE**

*Fused, Granulated and Liquid.*

**GLAUBER SALTS**

**PROMPT & FORWARD DELIVERIES'**  
**INQUIRIES SOLICITED.**

**William Blythe & Co., Ltd.**

**Chemical Manufacturers,**  
**Church, Lancashire.**

# L. ROZEN & CO.

36/37 MINCING LANE, LONDON, EC. 3.

BRANCH OF THE RUSSIAN TRUST &amp; FINANCE CO., LTD. (A BRITISH HOUSE).

Telegrams: "Ocnexorle."

Telephones: Avenue 3263/4, 5986, 5440.

## MERCHANTS & MANUFACTURERS

*All kinds of*

- |                                |                              |
|--------------------------------|------------------------------|
| (1) Botanicals and Crude Drugs | (5) Fine and Heavy Chemicals |
| (2) Spices                     |                              |
| (3) Gums                       | (6) Soaps                    |
| (4) Medicinal Seeds            | (7) Essential Oils           |

*Such as*

- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| (1) Ergot, Gentian,<br>Henbane, Henna<br>Insect Flowers<br>Licorice, Lycopodium,<br>Scammony, Senega<br>Senna, etc. | (2) Cinnamon<br>Cloves<br>Nutmegs<br>Pepper<br>etc. | (3) Aloes<br>Arabic<br>Tragacanth<br>etc. | (4) Aniseed<br>Cardamoms<br>Coriander<br>Cumin<br>Fenugreek<br>Wormseed, etc. | (5) Phenacetin<br>Saccharine<br>Santonin<br>Bicarbonate<br>Bichromate<br>Soda Ash, etc. | (7) Anise<br>Birch Tar<br>Coriander<br>Rose<br>etc. |
|---|---|---|---|---|---|

Representatives and Branches in almost every European country, and in the United States of America.  
India, Egypt, China, Japan, and many others.

WE ALWAYS HOLD SUBSTANTIAL STOCKS

### HAMMOND JEFFERY & CO., Ltd.,

8 HARP LANE, LONDON, E.C. 3.

Telephone: Central 9521. Telegrams: "Diuretic, Bilgate, London."

**BROMURAL**  
**DIURETIN**  
**EURESOL**  
**SANTYL**  
**STYPTOL**  
**TANNALBIN**

Price List and Particulars on Application

FOR  
**Acids** SULPHURIC  
**Resorcin** HYDROCHLORIC  
**Mercurials** NITRIC  
**Cascara Bark**  
**Saccharin**  
**Chloral Hydrate**

**Ask BERK**

F. W. BERK &amp; CO., Ltd.

1 FENCHURCH AVENUE, LONDON.

Works—STRATFORD and MORRISTON.

Telephone: 4032 Ave. Telegrams: "Berk, Phone, London."

### Wanted.

# STRYCHNINE POWDER & CRYSTALS

CARAVEL COMPANY INC. 110 Cannon Street,  
LONDON, E.C.4.Phones:  
City 7058-7059.Wires:  
"Aucarelix, Cannon, London."



PURE AND  
RELIABLEPHARMACEUTICAL  
PREPARATIONSCIBA  
BRAND

# "CIBA"

All products of the "CIBA" brand are of the utmost purity and reliability, ensuring uniform results in dispensing.

The following is a list of the Chemicals for which we are specially known, and we invite your inquiries and orders.

BARBITONE.	PHENACETIN.
PARAMIDOPHENOL.	PHENAZONE.
PHENOLPHTHALEIN.	VANILLIN.
GUAIACOL CARB.	PYRAMIDON.
METHYLENE BLUE.	METAGOL.
ICHTHYOL AMMON.	PYRO ACIDS.
DIAMIDOPHENOL.	GLYCIN.
CHLORAL HYDRAS.	ASPIRIN.
POT. SULPHOGUAIACOLAS.	
TANNIN ALBUMINATE, Etc.	

## CHEMICALS

*Address CHEMICAL Section of*

*Sole Concessionaires  
for the British Empire*

**THE CLAYTON ANILINE COMPANY LTD**  
(PHARMACEUTICAL DEPT)

68½ Upper Thames Street London E C 4

Telephones:  
(Head Office),  
AVENUE 1739 (3 lines).  
(General Chemical Dept.),  
AVENUE 6993 (2 lines).

**CHAS. PAGE & CO., Ltd.,** Telegrams: )  
"PAGANINI"  
LONDON."

**47/51 KING WILLIAM STREET,  
LONDON, E.C.4.**

Central 1838 )  
(3 lines).

**And at 26 BROWN STREET, MANCHESTER.**

"PAGANINI  
MANCHESTER."

**OFFER AT FIRST HAND:**

<b>ACID BENZOIC</b>	<b>PARALDEHYDE</b>
" <b>GALLIC</b>	<b>PHENACETINE</b>
" <b>CITRIC</b>	<b>PHENOLPHTHALEIN</b>
" <b>SALICYLIC</b>	<b>POTASSIUM PERMANGANATE</b>
" <b>TANNIC</b>	<b>RESORCIN</b>
" <b>TARTARIC</b>	<b>SODIUM BENZOATE</b>
<b>BENZO NAPHTHOL</b>	" <b>CARBONATE</b>
<b>HEXAMINE</b>	" <b>HYPOSULPHITE</b>
<b>HYDROGEN PEROXIDE</b>	" <b>SALICYLATE</b>
<b>METHYLENE BLUE</b>	" <b>SULPHITE</b>
<b>NAPHTHALINE (Marbles and Flakes)</b>	<b>TARTRAZINE</b>
	<b>VANILLIN</b>

**WHOLESALE QUANTITIES ONLY.**

**CELLULOSE ACETATE    TRIPHENYLPHOSPHATE  
POWDER ASPIRIN(B.P.) TABLETS ACETIC ANHYDRIDE  
TRICRESYL PHOSPHATE**

*IMMEDIATE DELIVERY of the above by the MANUFACTURERS—*

**The BRITISH CELLULOSE & CHEMICAL MANUFACTURING CO., Ltd.  
8 WATERLOO PLACE, LONDON, S.W. 1.**

Telephone: REGENT 4045.

WORKS: SPONDON, DERBY, AND WILLESDEN.

Telegrams: "CELLUTATE LONDON."

**TARTARIC ACID  
CREAM OF TARTAR  
CITRIC ACID**

**J. KHAMBATA & CO.**

**3 & 4 Ct. Winchester St.,  
LONDON, E.C.2.**

☪

Telephone: London Wall 5383.

Telegrams:

Foreign—"Jehangir London."

Inland—"Jehangir, Ave, London"



# For Prompt Delivery.

Chrysarobin.      Jalap Resin.  
Euonymin.      Scammony Resin.  
Leptandrin.      Extract Male Fern.

## J. F. MACFARLAN & Co.,

EDINBURGH & LONDON.

Salicylic Acid, B.P.  
Sodium Salicylate, B.P.  
Methyl Salicylate, B.P.  
Salol, B.P.  
Phenacetin, B.P.  
Acetanilide, B.P.

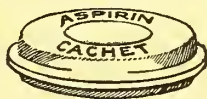
MOLT, THOMPSON & Co.  
LIMITED,

The Chemical Manufacturers,  
Binns Road, LIVERPOOL.

Telephone—Old Swan 413.  
Telegrams—"Salol Liverpool."

### Pyrogallic Acid Gallic Acid

Manufactured by **J. L. ROSE**  
At ABBEY ROAD, BARKING, LONDON, E.  
Wholesale and Export Only.



### CACHETS

are the best vehicles for giving medicine in powder form. They dissolve immediately and the drug is set free at once.

4/- per 1000 all sizes

Special quotations for quantities.

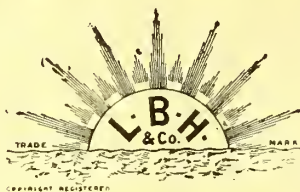
Cicero S. Clark, 12 Richmond Rd., Bayswater, W.2.

## CAMOMILES

**WHOLESALE ONLY.**

**F. J. CARMICHAEL & CO.,**  
17 Water Lane, LONDON, E.C. 3.

# L. B. HOLLIDAY & CO., LTD.



ARE MAKING AND CAN GIVE PROMPT DELIVERIES OF:-

**SALICYLIC ACID B.P.**

**ACETYL-SALICYLIC ACID B.P.**

(ASPIRIN)

Finest Quality  
Best Appearance  
Lowest Price

**TARTRAZINE**

**AURAMINE II.**

**METHYLENE BLUE, Z.F. CONC.**

**METHYLENE BLUE** (Medicinal Quality).

SEND YOUR INQUIRIES TO:

**Sales Department,  
HUDDERSFIELD.**

Telephone: 1840 HUDDERSFIELD (4 Lines).  
Telegrams: "DYEWARES HUDDERSFIELD."

## SICILIAN SULPHUR

**FLOWERS, ROLL and ROCK**  
**for Immediate Delivery**  
**in Large or Small Quantities.**

**NORRIS BROS. LTD.,**

**107/111 Moorgate Station Chambers, London, E.C.2**

Telephones: 5168 & 1033 London Wall.

Telegrams: "Sirronbro London."

**DIRECT IMPORTERS.**

**SEND US YOUR INQUIRIES.**



Telephone:  
Central 10238.

Telegrams:  
"Diluggo, Bilgate, London."

## CHARLES LANE & SONS

7 & 8 Idol Lane, LONDON, E.C.3

## EUCALYPTUS OIL

B.P. 70/75%

STOCKS IN LONDON

## GELATINES

SAMPLES AND QUOTATIONS  
FOR WHOLESALE QUANTITIES.

*Fine Pharmaceutical and  
Heavy Chemicals.*

## Victor Blagden & Co.,

4 Lloyd's Avenue, London, E.C.3

Telegrams: "Blagdenite, Fen London."  
Telephone: Avenue 6353 (4 lines).

Middlesbro'. Paris. Sydney.

ACETIC ACID  
FORMALDEHYDE  
TRIOXYMETHYLENE  
NAPHTHALENES  
OXALIC ACID  
POTASSIUM BROMIDE

*Supplies of every description of Coal Tar,  
Ammonia and Cyanogen Products.*

# 'ROCHE' PRODUCTS

## ALKALOIDS

ARECOLINE HYDROBROMIDE  
CAFFEINE AND SALTS  
COCAINE HYDROCHLORIDE  
COLCHICINE AND SALTS  
ESERINE AND SALTS  
HYOSCINE HYDROBROMIDE  
PILOCARPINE AND SALTS  
SPARTEINE SULPHATE  
STRYCHNINE AND SALTS  
THEOBROMINE AND SALTS  
YOHIMBINE HYDROCHLORIDE

## FINE CHEMICALS

AMIDOPYRINE  
BARBITONE  
PHENAZONE  
SILVER PROTEINATE  
SILVER NUCLEINATE  
TANNIN ALBUMINATE

## 'Roche' Specialities

'AIROL'  
'DIGALEN' 'IODOSTARIN'  
'OMNOPON'  
'SEDOBROL' 'SPASMALGIN'  
'THIGENOL' 'THIOCOL'

THE HOFFMANN-LA ROCHE  
CHEMICAL WORKS LTD.,  
7 & 8 IDOLLANE, LONDON, E.C.3.

# PRECIPITATED CRETA PRÆCIP. CHALK.

"Sturge's  
Chalk."



Lightest  
on the Market.

All grades from the **LIGHTEST** to **VERY DENSE**.

MANUFACTURED BY

**JOHN & E. STURGE, Ltd., 18 Wheeleys Lane, BIRMINGHAM.**

Agents:

**H. J. BAKER & BRO., 81 Fulton Street, NEW YORK.**

**G. REINBOLD & CIE, 63 Rue des Archives, PARIS.**

Also Manufacturers of—

**CITRIC ACID, BICARBONATE OF POTASH, ROCHELLE SALTS and pulv. SEIDLITZ, FLUID MAGNESIA, and "CITRATE OF MAGNESIA," and other Effervescent Saline Preparations.**

Telegrams: "Sturgeon Birmingham."

## A. S. PRICE & CO., LTD.

Manufacturing Chemists,  
**BLACKHEATH, BIRMINGHAM.**

### SPECIAL OFFERS.

Subject unsold. Net cash. F.O.R. or delivered locally.

**ACID SULPHURIC PUR. B.P.** Carboys at 5½d. per lb.  
**ACID SULPHURIC PUR.** (for analysis). Winchester at 9d. lb.

**ACID SULPHURIC "OLEUM" (20%)** Winchester at 9d. lb.

**ACID NITRIC PUR.** Carboys at 8d. per lb.

**ACID NITRIC COML.** Carboys at 5½d. lb.

**ACID NITRIC "FUMING"** Winchester at 1/3 lb.

**ACID HYDROCHLOR. PUR.** Winchester at 5½d. lb.

**ACID SULPHUROUS B.P.** Winchester at 3½d. lb.

**ACID ACETIC GLACIAL 95%** Winchester at 1/- lb.

**ZINC GRANULATED (arsenic 1 in 10 millions)** 2/- per lb.

**POT. NIT. PULV.** (Refined 99½%) 75/- 1 cwt.; 5 cwt. at 70/-

1 ton at 69/-

**OL. EUCALYPT. B.P.** 1 lb. 3/9, Wr. 3/6, Cases 3/-

**LICORICE.** 2 oz. sticks, 7 lb. at 4/6, 14 lb. at 4/3, 1 cwt.

cases at 4/-

**OL. LIMONIS. OPT.** 8/6 lb in 1 lb. bots.

**OL. ANISI. B.P.** 7/- lb. orig. Lead at 6/6.

**SAFROL.** 7/6 lb., 7 lb. at 7/3 in 1 lb. bots.)

**ACID TART. PULV. B.P.** 4/3 lb. 1 cwt. at 4/-, 5 cwt.

at 3/11

**GUM JUNIPER.** 2/6 lb., 14 lbs. at 2/3.

**CURRIE POWDER.** Finest, 1/6 lb., 7 lb. at 1 4, 1 cwt. at 1/2

**SUGAR OF MILK.** 2/6 lb., 7 lb. at 2/4.

**FLAVOURING ESSENCES.** assorted, 1 oz. at 9/6 doz., 2 oz.

at 16/6 doz

**GROUND MACE.** good, 1/11 lb., 14 lb. at 1/10.

**GROUND CLOVES.** 2/2 lb., 14 lb. at 2/1.

**ARROWROOT.** 9½d. lb., 14 lb. at 9d.

**GROUND GINGER.** 9½d. lb., 14 lb. at 9d.

Telegrams: "Custard, Blackheath, Staffs." Telephone: Cradley 174.

## Alliance Drug & Chemical Co., London

Offices: 34 LEADENHALL STREET.

NOTE.—Only terms, Net Cash with order without discount, or orders accepted through London Merchants or Bankers.  
Goods carriage forward: all packages free; Export cases extra.

**Acid Citric. Cryst., B.P.** '85, 7 lb. in bags @ 6/7 lb.; powder, ½d. lb. extra.

" Diethyl arbutic 1 oz. " 3/- or.

" Galic pure B.P., 7 lbs. @ 8/6 lb.; 1 lb.

" Hydrobrom., 6 lbs. @ 1/6½ lb. [ @ 8/9 lb.

**Ferrum Redact., 80%, 1 lb. @ 7/6.**

**Flor. Anth. Exot., 7 lbs. @ 1/10 lb.**

**Fol. Buchu, oval, 7 lbs. @ 18/- lb.**

**Fol. Sennæ Alex. parv., 28 lbs. @ 1/1 lb.**

**Fol. Sennæ Tinnev., 1 cwt. @ 1/- lb.; 7 lbs. @**

**1/1 lb.; English Ground, 56 lbs. @ 1/4 lb.**

**7 lbs. @ 1/5 lb.**

**Iodoform Pulv. B.P., 7 lbs. @ 24/6 lb.; 1 lb @**

**26/- lb.**

**Iodum. Resub. B.P., 7 lbs. @ 20/6 lb.; 1 lb. @ 21/-**

**Paraffinum Durum, B.P., 2 cwt. @ 9½d. lb.**

**1 cwt. @ 10d. lb.; 56 lbs. @ 10½d. lb.; 7 lbs. @**

**11d. lb. Molle Flav. B.P., 3½ cwt. @ 7/6**

**cwt.; 1 cwt. @ 85/- cwt.; 28 lbs. @ 10½d.**

**lb.; 7 lbs. @ 1/- lb.; Alb. B.P., 3½ cwt. @**

**190/- cwt.; 28 lbs. @ 1/10 lb.**

**Paraldehyde, B.P. 1 lb. @ 8/- lb.**

**Pepsin, B.P., 1 lb. @ 37/6 lb.**

**Potass. Brom. P.B., 7 lbs. @ 4/5 lb.**

**Potass. Chlor. Pulv., 7 lbs. @ 1/6 lb.**

**Potass. Cit., B.P., 7 lbs. @ 8/- lb.**

**Soda Brom., 7 lbs. @ 4/10 lb.; 1 lb. @ 4/11 lb.**

**Sodii Salicyl. Pulv., 2 lbs. @ 4/8 lb.**

**Hyposulphite, pea cryst. 1 cwt. @ 55/-**

**cwt.**

**\*Syr. Scilla, P.B., 7 lbs. @ 1/6 lb.**

**\* " Sennæ, P.B., 7 lbs. @ 2/1 lb.**

**\* " Tolut. P.B., 7 lbs. @ 1/8½ lb. [ @ 2/6 lb.**

**Sugar of Milk, P.B., 1 cwt. @ 23/- cwt.; 7 lbs.**

**Ung. Sulphuris, B.P., 28 lbs. @ 2/3; 7 lbs. @**

**2/5 lb.**

**" Zinc Oxid. made with Paraff. Molle basis**

**28 lbs. @ 2/3 lb.**

\*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted. In comparing prices it must be borne in mind that bottles and packages are free and not charged, but are credited if returned.



**ÉTABLISSEMENTS CHATELAIN,****2 & 2 bis RUE DE VALENCIENNES, PARIS.***Sole Manufacturers of***JUBOL****RE-EDUCATION OF THE  
INTESTINE.**Constipation, Enteritis, Hæmorrhoids,  
Indigestion, Skin Blemishes, &c.

Price 5/- per box.

**GLOBÉOL****POWERFUL BLOOD TONIC.**Anæmia, Nervous Exhaustion, General  
Debility, Tuberculosis Convalescence,  
etc.

Price 5/- per bottle.

**PAGÉOL****POWERFUL URINARY  
ANTISEPTIC.**Cystitis, Prostatitis, Catarrh of the  
Bladder, Renal Tuberculosis, etc. etc.

Price 5/- and 11/- per box.

**JUBOLITOIRES****SCIENTIFIC SUPPOSITORIES**Hæmorrhoids, Rectitis, Anal Fistula, etc.  
Hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

**URODONAL****POWERFUL URIC ACID  
SOLVENT.**Rheumatism, Gout, Arterio-sclerosis,  
Stones, Gravel, Sciatica, Neuralgia and  
all Uric Acid disorders.

Price 5/- and 12/- per bottle.

**VAMIANINE**New Scientific Preparation for Chronic  
Skin Affections, Psoriasis, Eczema,  
Acne, etc.

Price 11/- per bottle.

**SINUBÉRASE****SCIENTIFIC PREPARATION OF  
LACTIC FERMENTS.**Indicated in Intestinal Disorders,  
Sentry, Diarrhoea, Dyspepsia, Enteritis,  
Typhoid, Skin Eruptions, etc., etc.

Price 5/- per bottle.

**FANDORINE**Metrorrhagia, Dysmenorrhœa and Lactation,  
Pains, etc. etc.

Price 5/- and 11/- per bottle.

**FILUDINE****SPECIFIC FOR THE LIVER.**Malaria, Diabetes, Cirrhosis, Sluggish  
Liver, Tuberculosis, etc.

Price 11/- per bottle.

**GYRALDOSE.**

Antiseptic for local Gynecological use.

Price 4/- per box (powder)  
" 5/- " (tablets)**BRITISH AND COLONIAL AGENTS—****Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W. 1.**

Telegrams: "URODONAL LONDON."

Telephone: Regent 192.

AUSTRALIAN AGENT: Mr. BASIL KING, Malcolm Buildings, Sydney, N.S.W.

INDIA (SUB-AGENTS): G. ATHERTON &amp; CO., 8 Clive Street, Calcutta.

*Stocked by all Wholesalers.**Now being largely advertised.**Heppells***Guaranteed****SACCHARIN  
TABLETS.***Average over 7000 to pound.*

Quantity.	$\frac{1}{2}$ grain 330.	$\frac{1}{3}$ grain 330.	$\frac{1}{4}$ grain 330
b.	47/-	35/-	28/- lb.
b.	46/-	34/-	27/- "
-lb.	45/-	33/-	26/- "
O's boxes	9/6	7/6	6/- doz.
O's "	17/-	14/-	11/- "

Less 6d. per doz. in gross lots.

**CASH WITH ORDER, POST PAID ON £2  
VALUE; ORDERS LESS THAN £2 ADD  
6d. FOR POSTAGE.***A full-signed guarantee will accompany  
each order. We take the risk, you take  
the profit.***WALTON, Chemist, BATLEY.****TRADE NOTICE**

Alteration of Price for

**BLENOSAN  
CAPSULES**It has been found necessary at length,  
owing to the ever-increasing cost of  
production and raw materials, to revise the  
price of "BLENOSAN CAPSULES" to**Per Dozen Tins, 36/-**

RETAIL SELLING PRICE,

**4/6 per tin.****ROBERT FERBER LTD.**98/104 Oakley St., Lambeth,  
London, S.E.1.

**W. SUTER & CO.**12 Edmund Place,  
LONDON, E.C.1.**SACCHARIN**  
(SWISS)

"ELMITOLFO London."

CITY 5792.

**SACCHARIN TABLETS.**

GUARANTEED.	GUARANTEED.	GUARANTEED.
$\frac{1}{4}$ -grain 330	$\frac{1}{4}$ -grain 330	$\frac{1}{4}$ -grain 330
$\frac{3}{8}$ per 1000	$\frac{4}{9}$ per 1000	$\frac{6}{5}$ per 1000

IN SMART TIN BOXES.

5/6 doz. 100s	6/9 doz. 100s	8/9 doz. 100s
10/9 .. 200s	12/6 .. 200s	16/3 .. 200s
24/9 .. 500s	31/3 .. 500s	41/3 .. 500s
47/9 .. 1000s	60/9 .. 1000s	80/5 .. 1000s

Approximately 7,000 tablets to the lb.

Registered Post Paid. Cash with Order.

SUBSTANTIAL REDUCTION for QUANTITIES.

**ARION CHEMICALS CO.,** Perivale Chemical Works,  
Greenford, Southall, Middlesex.**ASPIRIN TABLETS.**

(GRAIN 5.)

In s/c bottles of

25 at 4/6 per doz. bottles.

50 at 7/6 per doz. bottles.

100 at 13/3 per doz. bottles.

In bulk at 7/3 per 1000.

Terms : NET, without engagement,  
carriage paid.Customer's name and address on orders  
of six dozen bottles and upwards.**CHEMICALS & BY-PRODUCTS, Ltd.,**

incorporating the

**COOPER LABORATORY**  
**WATFORD.****EMETINE****HYDROCHLORIDE**  
**HYDROBROMIDE**

ALSO

**EMETINE-BISMUTH-IODIDE,**  
**ATROPINE, STRYCHNINE,**  
**CAFFEINE, THEOBROMINE, NICOTINE**  
**QUININE SALTS,**  
**IODINE & BROMINE PREPARATIONS**

Mercurials, Refined Camphor.

**MORPHINE AND CODEINE**

Alkaloids and Salts.

Opium and all Opium Derivatives.

**WHIFFEN & SONS, LTD., BATTERSEA, LONDON, S.W. 11**

Telegrams : "WHIFFEN LONDON."

Telephones : 254, 255 BATTERSEA.

Codes for Telegraphing : A B C, Lieber

**SANDAL WOOD**  
**OIL.**Whiffen & Sons, Ltd., are  
sole Consignees of the**Mysore**  
**Government**

Standard Product.

Complies with requirements of a  
Pharmacopœias.

Samples can be had upon application to—



# Compressed Medicinal Tablets

In bringing our Compressed Medicinal Tablets before the notice of the Chemist, we would like to call attention to the following facts in connection with their manufacture.

All drugs and chemicals used in the production of our tablets are standardised before the manufacture begins. We have made it a point to use only the purest chemicals and drugs of the finest quality. The therapeutic activity of our tablets can, therefore, be absolutely relied upon. From our comprehensive list we have taken the following as being most in demand :

## LIST OF COMPRESSED TABLETS.

Acetanilid. gr. 2	Easton	Phenolphthalein
Acetanilid. Comp. B.P.C.	Ergotin*	Pine
Acid. Acetylsalicylic gr. 5	Ergotin -Co. (chocolate coated)	Pot. Bicarb.
Aloin Compd.	Formalin Mint	Pot. Bromid.
Ammon. Brom. gr. 5	Ginger Mint, P.P.C.	Pot. Chlor.
Antipyrin. gr. 5	Guaiacol Carb.	Pot. Chlor. Co. (voice)
Barbitone gr. 5	Hexamine	Quinine Bisulph. (coated or uncoated)
Bismuth Carb.	Hyd. c. Creta	Quinine Hydrobrom.
Bismuth Subnit.	Hyd. c. Creta & Ipecac. Co.	Quinine Sulph. (coated or uncoated)
Bismuth Carb. & Sodii Bicarb.	Hyd. Subchlor.	Quinine Ammoniat.
Bismuthated Magnesia	Hyd. Pereklor.	Quinine and Iron
Bismuth, Sodii Bicarb. and Zingib.	Hypophosphit. Comp.	Quinine and Cinnamon
Blaud (pink or white)	Ipecac. Co.	Rhei E. I.
Blaud et Aloin	Laxative Vegetable	P. Rhei Co.
Blaud, Arsen., Strychnine	Lithia Cit.	Saccharin
Caffein. Cit.	Morphin. Sulph. or Hydroch.	Salicin
Caffein., Antipyrin.	Methylsulphonol	Salol
Calcium Lactate	Pancreatin	Sodii Bicarb.
Calc. Sulph. (pink complexion tablets)	Pepsin B.P.	Soda Mint
Cascara Comp.	Peptonising Tablets	Soda Salicyl.
Cascara Sag.	Phenacetin gr. 5	Sulphonol
Chemical Food	Phenacetin B.P.C. (pink or white)	Thyroid Gland
Compound Quinine	Phenacetin Co. (pink or white)	Trinitrin
Digestive	Phenacetin Co. B.P.C.	Trinitrin B.P.
Dyspepsia		Veronal (Barbitone)

All the above can be supplied in bulk or packed for the retail trade with the chemist's name if desired, and special prices will be quoted for large buyers.

We think we can with justice pride ourselves upon the quality of our Compressed Medicinal Tablets, having availed ourselves of the most up-to-date scientific tabletting machinery which we have recently installed. Under expert supervision the resultant products, we are confident, will satisfy the most exacting pharmacist.

*Issued from the Laboratories of*

## C. R. Harker, Stagg & Morgan, Ltd.

Devon Wharf, Mile End, E. 1

Cable Address:  
"CELAITCH NEW YORK."

Codes:  
ABC, Fifth; Bentley's Improved Private.

# CHAS. L. HUISKING, INC.

5 Platt St., New York City.

**BROKERS & COMMISSION MERCHANTS,  
DRUGS : CHEMICALS : OILS : SPICES.  
PROPRIETARY MEDICINES, DRUGGISTS' SUNDRIES.**

*Buying and Selling Agents for leading  
Houses in all parts of the World.*

European Manufacturers desirous of placing their goods in the American market would do well to communicate with us. Our outlet for goods is very large.

Weekly Market Reports Mailed on request of WHOLESALE BUYERS only.

BUY FROM THE ACTUAL DISTILLERS

## EUCALYPTUS OILS

Cineol - B.P. ( $C_{10}H_{18}O$ )

Peppermint - Ketone

Sp. Gr.  $\frac{0.935}{\text{to } 0.940}$  Ref. Ind.  $\frac{1.450}{\text{to } 1.485}$

Opt. Rot.  $0^\circ$  to  $-1^\circ$

Phellandrene ( $C_{10}H_{18}$ )

and all grades Eucalyptus Oil,  
B.P., U.S.P., Standard & Industrial.

E. CITRIODORA

E. McARTHUARI

We are prepared to quote by cable or  
ex London stocks when available.

**GILLARD GORDON, LTD.  
SYDNEY, AUSTRALIA.**

Cables: "Gumlypta Sydney."

# GETS-IT

(The World-Famous Corn Remover)

"Gets-It" is a liquid which dries at once when applied to corns or calluses with glass applicator that accompanies each bottle. So pain at once and soon loosens the corn or callus so that it can be lifted right off.

Used by Many Millions throughout the balance of the world, and certain of enthusiastic reception here.

Now Distributed in Great Britain through

**THOMAS CHRISTY & CO**

4, 10 & 12 Old Swan Lane, Upper Thames St., London, E.C.

Manufactured by E. LAWRENCE & CO., Chicago, U.S.A.

## EUCALYPTUS OIL (RECTIFIED.)

Eucalyptol Content	...	...	...	70/80 %
Optical Rotation	...	...	...	0 to 1
Specific Gravity	...	...	...	'919 to '928

Absolutely Free from Phellandrene.

Quotations by Cable. Wholesale Trade only.

**BURNSIDE & COMPANY**  
Eucalyptus Oil Distillers,  
**VICTORIA, AUSTRALIA.**

New Postal Address—  
591-5 Bourke St., Melbourne.

Cables—"Burnside  
Melbourne."



# WILD CHERRY BARK.

## H. R. LATHROP & CO. Inc.

Drug Merchants

CABLE ADDRESS: "SISCOSTAL"

A B C — 5TH EDITION  
SAMPER 2A EDICION  
BENTLEY'S 5-LETTER

116 BEEKMAN STREET,  
NEW YORK, N.Y.

# PEPSIN-STEARN'S, B.P. & U.S.P. DIGESTIVE FERMENTS

We invite your attention to our comprehensive line of Pepsins and allied products:

Pepsin, New Method (spongy), 1:2500, 1:3000, 1:6000

Pepsin, powdered, 1:2500, 1:3000, 1:6000, 1:10,000

Rennin

Diastase, powdered, various strengths

Pancreatin

Haemoglobin

Thyroid Glands, B. P. & U. S. P.

Oxgall, powdered

Beef Peptone, powdered or paste

Peptonum Siccum—purified beef peptone for bacteriological purposes



*Prompt Service*

## FREDERICK STEARN'S & COMPANY

Home Offices and Laboratories

DETROIT, MICHIGAN, U. S. A.

Windsor, Ont. New York San Francisco Sydney, N.S.W. Calcutta: 8 Waterloo St.

Manufacturers of Digestive Ferments, Pharmaceutical Specialties, Buyer's Packed Goods, High-Class Toilet Requisites, Private Formula Products. Inquiries invited.

In addition to the "APOLLO" Brand of P  
STICK LIQUORICE JUICE, MacAndrews  
& Forbes, Ltd., make an equally high-class  
stick, which they sell under registered  
brand of "MAFCO." This Stick  
Juice is guaranteed pure  
extract of the richest  
Liquorice Root  
in the  
World.

**APOLLO**

It has  
a strong  
liquorice flavour  
due to its highly-  
concentrated form. Like  
"APOLLO" Juice, it is highly  
soluble and free from dirt and grit.  
These Juices are made by the largest  
Pure Liquorice Manufacturers in the World,  
under direct supervision of an expert British Staff.

MACANDREWS & FORBES, Ltd., 2 Broad St. Place, London, E.C. 2.  
ESTABLISHED 1857.

## R. T. DUN THE ORIGINAL MAKER

invites inquiries for all  
kinds and quantities of

## Hand-Made Gelatine Capsules

FOR HOME OR EXPORT  
Sandal Oil Capsules a Speciality

5 OSWALD ST., GLASGOW

## ERNEST JACKSON & CO.,

Manufacturing Chemists. Ltd.

Specialists in: COMPRESSED TABLETS; MEDICATED LOZENGES, &c.

INVENTORS  
of

**Glossettes**  
REGD.

THE ORIGINAL  
(cushion-shaped)  
PELLETS of

**LIQUORICE & MENTHOL,**  
and other *Sugar-free* Combinations for Complaints of the  
Respiratory Organs.

Offices and Works: **CREDITON, DEVON.**  
Telephone: Crediton No. 10. Telegrams: "Jackson Crediton."  
London Depot: Plantain Place, Crosby Row, Borough, S.E.  
Telephone: Hop 2668.

# ETNA

BRAND

## LIQUORICE JUICE

THE FINEST ON THE MARKET.

**Guaranteed Pure**  
**STICKS**  
and  
**BLOCK**

WRITE FOR SAMPLES & PRICES, PROMPT AND FORWARD DELIVERY.

SOLE IMPORTERS—

**LINTON, HUBBARD & ANDREW, 72-75 Fenchurch St., LONDON, E.C. 3**

Telephone: 1892 Avenue.

ABC, and Lieber's Codes.

Cables and Telegrams: "LINTEOLO LONDON."



# Theobromine Sodio-Salicylate

(chemically the same as Diuretine).

## Caffeine

Theobromine Pure Alkaloid

Theobromine Soda Acetate

Substitute for Agurine.

Societeit voor

Chemische Industrie Katwijk

KATWIJK-AAN-ZEE,  
HOLLAND.

## Chemical Works Madoery, Ltd. BASLE, SWITZERLAND.

Established 1902.

Swiss Firm.

### MALEFERN EXTRACT 24/25 %

We have a regular and continuous output  
of this article and always keep stock in  
London.

PLEASE ASK FOR PRICE

Agent for United Kingdom: E. M. BATCHELAR,  
Temporary Offices: 39 North End, Croydon.  
Telephone: 713 Croydon.

## "PHARMACIA" BRAND.

FLUID EXTRACTS AND TINCTURES,  
Standardised

ABSOLUTE ALCOHOL,  
COLLODIONS,

All ex our bonded laboratories.

ROYAL PHARMACEUTICAL Co. Ltd.,  
AMSTERDAM (Holland).

Agent: A. C. HENRY, 19 St. Dunstan's Hill, LONDON, E.C.3.

## GIGNOUX FRÈRES & BARBEZAT,

Chemical and Pharmaceutical  
Products, Drugs & Herbs.

DECINES, near LYONS, France.

HYDROGEN 12 vol. }  
PEROXIDE 20 " } for Export.  
100 "

ETHERS

CHLOROFORM

CHLORAL HYDRATE

COLLODIONS

SPIRITS—ELIXIRS—  
ALCOHOLIC TINCTURES

PHARMACEUTICAL  
EXTRACTS  
OF ALL KINDS.

Fluid Extracts for Syrups.

American Fluid Extracts.

Semi-fluid Extracts: Belladonna, Ergotine,  
Gentian, Valerian, Liquorice, etc.

Extracts for Wines and Aperitifs, &c.

## VETERINARY EXTRACT OF MALE FERN

24/25 % Filicine.

Kills the Liver Fluke & Cures Sheep & Cattle.

## METALLINE

Metallic solution for capsuling vials, bottles, &c.

DRUGS & HERBS, FLOWERS,  
ROOTS, &c.

Arnica  
Belladonna  
Black Alder  
Lavender

Gentian  
Fern  
Lime  
Chamomile

Oak Moss, &c.

LONDON AGENT:

R. ANSAY, 44 Wilson St., Finsbury, E.C.2.  
Telephone: London Wall 3103.



## G. C. Starup's Danish Cheese RENNET EXTRACT

STARUP'S REAL DANISH CHEESE RENNET EXTRACT is guaranteed to be made from finest calf vells only, and does not contain Pepsin or other kind of substitute. Chemists and Druggists, please ask for G. C. Starup's real Danish Rennet Extract, Annatto Cheese Colour and Butter Colour: also Rennet Tablets for Cheese Making. PRICES ON APPLICATION.

G. C. Starup's Chemical Works, Copenhagen, K., Denmark.

GOLD MEDALS:  
Paris 1889 and 1900.  
GRAND PRIX:  
Turin 1911.

## FERDINAND ROQUES, PARIS.

"ROQUES" ATROPINE  
"ROQUES" COCAINE  
"ROQUES" PILOCARPINE  
"ROQUES" SPARTEINE

Manufacturer of Pure  
Pharmaceutical Chemicals.  
ESTABLISHED 1846.

### OTHER SPECIALITIES:

Refined Camphor, Iodides, Iodoform, Iodothymol,  
Bromides, Bromoform, Bismuth Salts,  
CACODYLATES, METHYLARSENATES.

SOLE AGENTS FOR U.K.: **W. Charity & Sons, 14 Harp Lane, LONDON, E.C.3.**

Telephone: Avenue  
no. 2 4359.

(WHOLESALE ONLY.)

Telegrams: "Charity London."  
CODES: A B C and LIEBER'S.

Telephones: London Wall 4391, & Bank 275.

Cable Address: "TAARINCO, LONDON."

## THE EASTERN & RUSSIAN TRADING COMPANY, LIMITED, 8 Drapers' Gardens, Throgmorton Avenue, London, E.C.2.

Representatives and Agents in France, Italy, Germany, Turkey, Palestine, India, Siberia, Japan, and U.S.A.,  
General Agents of **I. L. GOLDBERG**, Petrograd, Vilna, Odessa, Moscow, the exclusive exporter of

# SANTONINE

From Russia to the whole world.

Inquiries solicited also for

## RUSSIAN CRUDE DRUGS

WORMSEED  
(Semen Contra)  
Aniseed  
Elderflowers

LYCOPodium  
ERGOT of RYE  
Boletus Cervinus

ELECAMPANE ROOT  
Liquorice Root  
Calamus Root  
Soap Root

GUM AMMONIA  
GUM GALBANUM  
GUM TRAGACANTH

HENBANE LEAVES  
Frangula Bark  
Cantharides  
Blood Albumine

ANISE OIL  
Coriander Oil

STOCKS IN LONDON & AT THE PRINCIPAL AGENCIES.

# TOMODA & COMPANY,

WHOLESALE DRUGGISTS, EXPORTERS, IMPORTERS AND MANUFACTURERS.

OFFICES: Tokyo, Yokohama, Osaka, Dairen (Dalny), Singapore.

FACTORY: Hiranuma, Yokohama.

LABORATORY: Marunouchi, Tokyo.

### THE SUPPLIERS OF THE FOLLOWING JAPANESE PRODUCTS:

Ammonia Sulpho-Ichthyol, Agar-Agar, Aniline Oil, Argent. Proteinic, Arsenobenzol, Caffein Pure, Camphor, Chalk Precipitated, Chamomile Flowers, Cod Liver Oil, Copper Sulphate, Epsom Salts, Glycerine, Insect Flowers and Powder, Iodide Potass., Iodide Soda, Iodine Pure, Iodoform, Kuromoji Oil, Magnesia Carbonate, Menthol, Menthol Cones, Naphthalin, Neoarsenobenzol, Peppermint Oil, Salicylic Acid, Salicylate Soda, Sulphate Iron, Staraniseed, Talcum, Yellow Prussiate Potass., Zinc Oxide, Ginger, etc. etc. Also Glasswares and Bottles.

Correspondence respectfully invited to

**TOMODA & CO., 4-CHOME, HONCHO, NIHONBASHIKU, TOKYO.**



# CHEMICAL WORKS BRUGG Ltd.

(SWITZERLAND).

## Potassium orthoquinoleinsulfonate and Tablets

Albumine Tannate	Sodium Diethylbarbiturate	Diethylbarbituric Acid
Acetamidosalol	Quinine Ethyl Carbonate	Ethylparamidobenzoate
Antipyrine & Salts	Sodium Methylarsinate	Guaiacol Carbonate
Atophan Subst.	Phenacetine	Guaiacol Liquid
Acetol Salicylate	Phenazone	Guaiacol Benzoate
Benzonaphthol	Pyramidon	Hydroquinone
Bromides	etc.	Hexine Citrate
Chlorophyll		Hexine Crystals
Creosote Carbonate		Methylsulfonal
Chinosol Subst.	Menthol Valerinate	
Diethyltannin	Metol	
Silver Salts	Naphthol Salicylate	

# "CEBE"

	Indol	Methyl
	Benzyl Alcohol	Anthranilate
	Benzyl Acetate	Musk Ambrette, &c.
	Benzyl Benzoate	Neroline Crystals
Bromstyrol	Pine Oil	Oenantic Ether
Coumarin	Mustard Oil	Rhodinol
Eugenol	Juniperberry Oil	Terpineol
Geraniol	Geranium Oil Artif.	Terpinyl Acetate
elliotropine	Lemon Oil, terpeneless	Tonkain

## Acid Phenilquinoleincarbonic and Tablets

*Representatives for Great Britain:*

**W. SUTER & CO.,** 12 Edmund Place, **LONDON, E.C.1.**  
Aldersgate Street,

Telegrams: "ELMITOLFO, CENT, LONDON."

Telephone: CITY 5792.

# QUININE } AND SALTS

CINCHONIDINE  
CINCHONINE  
QUINIDINE

SUGAR-COATED QUININE TABLETS & PILLS,  
GELATINE-COATED OVAL PILLS

## BANDOENG QUININE FACTORIES

BANDOENG-JAVA.

Telegrams—"Kininefabriek Bandoeng."

AMSTERDAM: De Wittenkade 48/50

Telegrams—"Schalkwyk Amsterdam."

SOLE AGENTS FOR THE UNITED KINGDOM—

**C. M. & C. WOODHOUSE, 30 Mincing Lane, London, E.C.3.**

Telegrams—"Palmiste, Telew, London."

SAMPLES AND PRICES ON APPLICATION.

ORTHO - OXYCHINOLINE SULPHATE

**"SUPEROL"**

Registered Sale Name.

In Powder, Granulated and Tablets.

A MOST EFFECTIVE NON-POISONOUS  
ANTISEPTIC AND DISINFECTANT.

SOLE MAKERS:

**Vereenigde Chemische Fabrieken**  
(United Chemical Works)  
**AMSTERDAM.**

*Also Manufacturers of the following—*

Potassium Oxychinoline Sulphate, Neutral Sulphate  
of Ortho-Oxychinoline cum Sulphate of Potassium,  
Anaesthesine, Terpinhydrate, Terpeneol, and  
Phosphate of Ammonia.

Write for Samples and Quotations from the Sole Agent  
for Chemical and Pharmaceutical Products,

**K. RAYMENT, 2 Broad Street Place**  
**LONDON, E.C. 2**

Telephone:  
4688 London Wall.

Cables & Telegrams:  
"Oleowiks, Ave, London."

FOR

# QUININE & SALTS

ALSO

QUINIDINE }  
CINCHONINE } AND  
CINCHONIDINE } SALTS

AND

**SUGAR-COATED QUININE TABLETS**

MANUFACTURED BY

**AMSTERDAM QUININE WORKS.**  
Wittenkade 48/50, Amsterdam.

APPLY TO

SOLE AGENTS for the UNITED KINGDOM—

**COURTIN & WARNER, 8 Harp Lane**  
London, E.C.3

For samples, prices and particulars.

Telegrams: "Accourtwa, Bilgate, London."  
Telephone No.: Avenue 2220.



# THE ANGLO-FRENCH DRUG CO., Ltd.

238a Gray's Inn Road  
London, W.C.1.

Phone: HOLBORN 1311.

NEW YORK: 1270 Broadway.

WEST-END DEPOT: MODERN PHARMACALS

MONTREAL: Dandurand Building.

PARIS: Rue Clauzel.

Telegrams: "AMPSALVAS LONDON."

BOMBAY: P.O. Box 460.

(Managing Director, J. G. GORDON, M.P.S.) 48 Mortimer St., W.1.  
Telephone: MUSEUM 564.

## PHARMACEUTICAL PREPARATIONS.

### AMBRINE.

Advance in the treatment of fevers (slight or severe). Gives immediate alleviation of pain. For Chilblains, Ulcers, &c.

### AMIBIASINE.

Ground Extract of Garcinia. Treatment of Amoebic Dysentery.

### ANIODOL.

Antiseptic. Disinfectant. Odorant for Sick Rooms, Instruments, Bed-pans, etc.

### CRYOGENINE.

(LUMIERE): General Antipyretic. Powerful Analgesic. Replaces ANTIPYRIN, PHENACETIN and PYRAMIDON.

### CUPRASE.

Chemically prepared CHEMICAL Copper for CANCER. Gives most encouraging results in a good number of cases.

### LYTO-SERUM.

Active Strychno-Arsenical preparation for Pulmonary Tuberculosis, Syphilis, Pernicious Anæmia, &c.

### DIABETIFUGE.

Successful Anti-Diabetic. Most satisfactory clinical results (formula given). Administered in Cachets.

### DIGITALINE Crystallisée

Standardised. The true principle of Digitalis purpurea.

### DIGESTINE OUTFIT.

Interesting Case. Exceedingly simple and complete. For pocket.

### ENDOCRISINES.

Therapy Extracts of General Secretory Glands produced *in vacuo* at freezing-point.

Conforms per L.G.B. Regulations.

### ECTARGYRE.

Combination of Hectine with Mercury. Intramuscular Injection; also in Pills and Drops.

### HECTINE.

Antiphilic. Low Arsenic dosage. Good results in intractable Syphilis. Intramuscular Injection; also in Pills and Drops.

## A WARNING

It having come to our knowledge that a preparation called

## STANNOXYL

which is an imitation of the original article, is now on the market in England, we, as sole importers, beg to warn the trade generally that we do not hold ourselves responsible for the genuineness of the contents of any package which does not bear our name and address.

The ANGLO-FRENCH DRUG Co., Ltd.,

238a Gray's Inn Road,  
LONDON, W.C.1.

## PHARMACEUTICAL PREPARATIONS.

Quinine Salts are now Restricted

### KINECTINE.

A Quinine Salt of Hectine. Prophylactic and Curative for Hay Fever, Rhinitis, Influenza. In Tablets.

### KRAMYZARINE.

Treatment of Varicose Veins, Phlebitis, Varicose Ulcers, &c.

### LATAPIE.

Reaction. Simplified Wassermann Test, from the Pasteur Institute.

### MORUBILINE.

Extract of the fresh liver of the cod. Supersedes Cod Liver Oil.

### NEOCAINE-SURRENINE.

A perfect Cocaine substitute of low toxicity.

Reliable and safe. Spinal and Local Anæsthesia. Ointments, Gargles, Snuffs, &c.

### NEVROSTHÈNE.

Alkaline Solution of Glycerophosphates.

### OPOLAXYL

For Constipation. A combination of pancreatic, biliary, and intestinal secretions. A normal regulator of the intestinal functions. Tablets.

### QUINEINE.

A liquid extract from Cinchona Succirubra. Contains 5% of Quinine Alkaloid.

### RHEANTINE.

(LUMIERE) For the treatment of Gonorrhœa in its various stages by the internal administrations of specially prepared Gonococci. In Spherules. Rapid, effectual, harmless.

### STANNOXYL SOLUTION

For Staphylococcal affections. In 2 c.c. ampoules for Intramuscular Injection.

### STANNOXYL TABLETS.

Oxide of Tin and Tin-metal free from lead. Treatment of: Acne, Boils, etc.

### SUKROSERUM.

Solution of Saccharose. Intramuscular Injection for Tuberculosis.

### SUPSALVS.

Stable Suppositories of "606." (French Manufacture). Simple, effective, harmless. Give excellent clinical results.

### TRICALCINE.

Contains the pure phosphates of lime and magnesia.

### URASEPTINE.

Composed of Urotropine and Helmitol. A powerful Urinary Antiseptic, dissolves and eliminates Uric Acid

"ADVANCE IN PRICE"

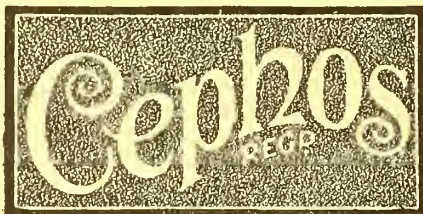
**Falconer's Golden Compound**

On and after July 1 will be advanced to 2/-

The Proprietors regret that owing to the exceedingly high cost of production, coupled with a just demand of their Agents for improved terms to meet also their great expenses, they are compelled to advance the price to 2/-

They, therefore, hope the Retailers will reduce their stocks to the lowest minimum, so as to obviate the necessity of adding the increased Stamp Duty, Labelling, &c.

**Falconer & Co., Ltd.,** *Manufacturing Chemists,* **47 Mark Lane, London, E.C3**



For NEURALGIA, HEADACHE,  
RHEUMATISM and INFLUENZA.

*Write for wholesale terms to*

**CEPHOS LTD., Blackburn, Lancs.**

# SAPONIN

(SOLUBLE)

*Special Terms to Wholesalers and Large Consumers.*

MANUFACTURED BY

**C. W. FIELD, LTD.,**  
Cambrian Mills - - Liverpool

Will you allow us to send you the names  
of patients in your town who are  
purchasing

# Sphagnol

## OINTMENT & SOAPS?

THE LIBERAL TERMS WE OFFER,  
TOGETHER WITH

*Samples and full particulars, will  
be sent by return to every Chemist.*

Doctors are prescribing, and Nurses  
using, Sphagnol in the treatment of  
ECZEMA, HÆMORRHOIDS,  
ACNE, SCABIES, SEPTIC  
WOUNDS, INSECT BITES  
and various forms of SKIN IRRI-  
TATION. The public are asking  
for the names of local suppliers.

SPHAGNOL OINTMENT

„ MEDICAL SOA  
„ TOILET „  
„ SHAVING STIC  
„ SUPPOSITORIE

**PEAT PRODUCTS (Sphagnol) LTD.**

19 Queenhithe, Upper Thames St. - - LONDON, E.C. 4



# Philip's Standard Retail Price List.

Ingeniously arranged, it shows at a glance the current cost, the suggested retail prices for the most usual quantities sold or dispensed, from 1 dram. to 1 lb. and half-a-pint to one gallon, and in the more expensive items the prices for the various grain and minim quantities are also given.

Acknowledged by those most competent to judge as the best list of its kind, built on definite scientific systems with definite percentages of profit. Crammed full of figurative information of the utmost importance to Chemists. No Chemist can afford to be without it.

**Specimen Copy 1/- Annual Subscription 5/- post free.**

*Published by*

**CHARLES PHILIP, Pharmacist, 258 Pitsmoor Road, Sheffield.**

*(PLEASE NOTE NEW ADDRESS.)*

## A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

June 12, 1920.

The following revised prices are  
now in force:

Advertisement.	Minimum Retail Price.	Minimum Wholesale Price.
<b>Aln &amp; Hanbury's Preparations :</b>		doz.
Hazol ... ..	3/6	31/6
" ... ..	6/6	58/6
Muscabane Cream ...	1/9	15/9
" Soap ... ..	1/9	15/9
" Lotion ... ..	2/6	22/6
<b>CALVERT'S Carbolic</b>		doz.
Tooth Powder, No. 1	7½d.	5/7½
Ditto No. 2	1/3	11/3
Ditto No. 3	1/10½	16/10½
Ditto 1 lb.	6/-	54/-

## BRADSTREET'S BRITISH LTD.

*(In association with BRADSTREET'S INTERNATIONAL LTD., and  
THE BRADSTREET COMPANY OF NEW YORK)*

presents with SPEED and EFFICIENCY the most reliable  
LOCAL KNOWLEDGE as to the status of Business houses in  
EVERY COUNTRY and EVERY MARKET of the World, and is

### THE GREATEST INTERNATIONAL MERCANTILE AGENCY under BRITISH CONTROL.

It embodies 70 years' experience and, both for HOME and  
FOREIGN reports, offers a Commercial Intelligence Service  
second to none.

#### DIRECTORS :

Sir RICHARD V. VASSER-SMITH, *part.*, Chairman.  
G. P. HARB N. Vice-Chairman.

THE EARL OF HARROWBY. | FREDRIC WISE  
SIR T. H. PENSON. | E. J. R. DCLIFFE.  
General Manager, EDWARD N. LAXTON. Secretary, R. CRAMPTON.

**Head Office: 137 CHEAPSIDE, E.C. 2.**

*For Terms of Subscription, write or 'phone "CITY 1975."*

#### DISTRICT ADDRESSES :

LEEDS—Phoenix Chambers, South Parade. Leeds 22182  
MANCHESTER—25 Cooper Street. Manchester City 3449.  
GLASGOW—90 Mitchell Street. Glasgow 7938.  
BIRMINGHAM—39A New Street. Birmingham Central 6085.  
BRISTOL—28 Baldwin Street. Bristol 3572.  
BELFAST—16 Donegall Square South. Belfast 276.  
LIVERPOOL—Prudential Buildings, Dale St.

*Antiphlogistine*  
TRADE MARK

**25% PROFIT**

(P.A.T.A.)

Additional 5% on £2:0:0 orders, CARRIAGE  
PAID, cash with order, from your wholesale house  
or direct from the

SOLE  
BRITISH  
AGENT:

**J. F. MURPHY,**

41 ST. ANN'S ROAD

LONDON, E. 3.

**MACHON'S  
COMFORTINE**

*has for Forty Years  
been the Best & Safest  
Infants' Preservative.*

**COMFORTINE contains no Opiates  
or Dangerous Drugs whatever.**

*During teething it is  
a real Baby's friend.*

PREPARED BY

**Machon's Comfortine Ltd.**

Coalville, LEICESTER.

Fixed Minimum Price: **1/3** PER BOTTLE.

**LLOYDS BANK  
LIMITED**



Chairman:  
Sir RICHARD V. VASSAR-SMITH, Bt  
Deputy-Chairman:  
J. W. BEAUMONT PEASE.

HEAD OFFICE:  
71, LOMBARD STREET, E.C. 3.

(31st December, 1919).

CAPITAL SUBSCRIBED	£58,878,400
CAPITAL PAID UP	- 9,420,544
RESERVE FUND	- 9,675,105
DEPOSITS, &c.	- 325,938,436
ADVANCES, &c.	- 135,763,591

**AFFILIATED BANKS:**  
THE NATIONAL BANK OF SCOTLAND LIMITED.  
THE LONDON AND RIVER PLATE BANK LIMITED.

**AUXILIARY:**  
LLOYDS & NATIONAL PROVINCIAL FOREIGN BANK LTD.



# Musterole Drives Away Headache.

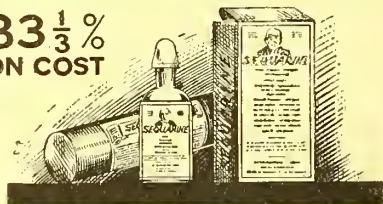
Miller's Musterole, a headache remedy without the dangers of a "headache medicine," may be recommended to your customers with the certain knowledge it will give satisfaction.

Put up in a handy white jar for immediate use, Miller's Musterole is a clean, white ointment made with oil of mustard. Since it is used only externally it can in no way affect the stomach and heart, as some internal medicines do.

Many doctors and nurses are recommending Miller's Musterole. And throughout the United Kingdom it is being widely advertised in the press. Add this profitable line to your stock to-day. Prices and additional information on request.

**Thos. Christy & Co., 4-12 Old Swan Lane, London, E.C.4**



33  $\frac{1}{3}$  %  
ON COST

## SEQUARINE

**Because** Sequarine is the embodiment of a great scientist's discoveries.

**Because** anxious sufferers in thousands are seeking real relief from the dangers of Neurasthenia and nervous disorders generally.

**Because** Sequarine is given consistent and effective publicity.

For these reasons the supply of Sequarine has for some time been behind the great demand. But full supplies are now assured, and all should make sure ample stocks are on hand. A new publicity campaign is about to be launched.

**P.A.T.A. Prices:** Retail Wholesale  
Sequarine (Liquid)... 5/- ... 45/- doz.  
" Tablets ... 3/- ... 27/- "

" ... 1/3 ... 12/- "

Special terms to retailers: 5% discount on 3 doz lots.  
**SEQUARINE, LTD., Albion House,**  
59-61 New Oxford St., London, W.C.1

# We invite you—

to participate in the increased trade accruing from the publicity campaign which has been, and is still being, carried out.

This advertising is telling the public the value of IGLODINE in all its various uses. Your customers are being told. They are learning the wisdom of always asking IGLODINE Specialities.

See to it that you are able to meet this ever-increasing public demand for Specialities which bear the name



## Make the Drummer your business mascot

"The Drummer leads the way to healthy bright surroundings."

This is what your customers are reading in our press announcements—and why not let him lead you to business success, too!

Give him a prominent position on the counter or in your window. Watch how steadily your profits account increases; then, "give him the lead." Hundreds of shopkeepers have been helped on the road to success—why not let him help you, too!

An extensive advertising scheme has been prepared for 1920, and advertisements will appear in all leading weekly and monthly publications. Take advantage of this publicity campaign by displaying Drummer Dyes prominently. Let your customers see that you are one of the many shopkeepers who realise the economy and necessity of

## DRUMMER DYES

A parcel of attractive advertising matter and full trade particulars will be sent to those who wish to further increase their business.

**W. Edge & Sons Ltd., Bolton.**



# Iglodine

For Cuts, Burns, Scalds, Wounds, and for Colds, Influenza and Throat Trouble Iglodine Preparations are remarkably effective.

### Iglodine Specialities.

Antiseptic, Embrocation, Ointment, Pastes, Tablets, Soap, Nasal Douche, Suppositories.

**Write to-day for full particulars and for coloured display posters 14 in. by 19 in.**

**THE IGLODINE CO. Ltd. (Dept. 1)**  
Pilgrim Street, NEWCASTLE-ON-TYNE

(1) On the P.A.T.A.



# CHEMISTS!

## 100% PROFIT

HAVE YOU STOCKED

# CITON

## TABLETS ?

CITON offers you a bigger margin of profit  
than any other advertised aperient.

---

SOLE AGENT (U.K. & COLONIES)—

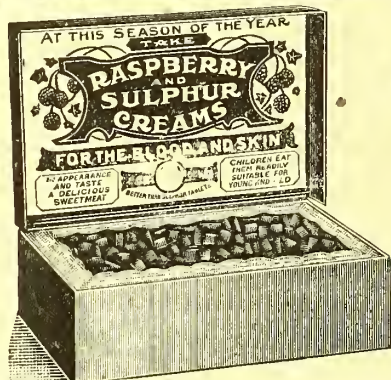
**MARCEL BLOCH,**

**30/32 Ludgate Hill,**

**LONDON, E.C. 4.**

*Agents wanted—Town and Country.*

# Potter & Clarke's Original Specialities



## CREAMS

A Revolution in  
Medicated Lozenges.

**Raspberry Sulphur Creams.  
Sulphur Figs.**

ONLY SHOW THEM.  
THEY SELL THEMSELVES.

2/1 per lb.

28 lb. 2/-  
112 lb. 1/10

56 lb. 1/11

ALL-THE-YEAR-ROUND CONFECTION.

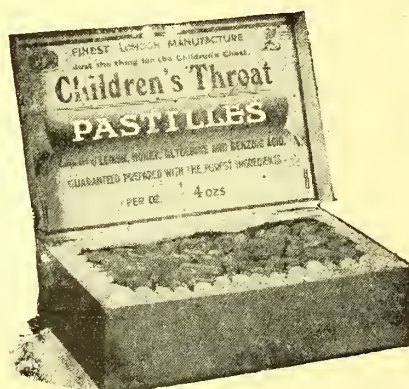
## SIMRO'S WHITE ALPINE MINTS

A delightful Peppermint-flavoured Cream, made  
with pure Sugar and the Finest Peppermint Oil.

A PURE & WHOLESOME SWEETMEAT FOR YOUNG & OLD.

PRICES :

2/1 per lb. 28 lb. 2/- 56 lb. 1/11. 112 lb. 1/10. Retail 2d. per oz., 8d.  $\frac{1}{4}$ -lb.



## Medicated Pastilles.

OUR OWN MANUFACTURE.  
PREPARED ENTIRELY WITH THE FINEST GUM ARABIC.

**BLACK THROAT PASTILLES. BLACK ANTISEPTIC PASTILLES.**

If ordered "Throat Pastilles," our ribbed shape sent.

If ordered "Antiseptic," small oval shape sent.

**CHILDREN'S THROAT PASTILLES. EUCALYPTUS GEMS. CHLORO-PINES** (our speciality).

**LINSEED, LIQUORICE and CHLORODYNE.**

The best and strongest on the market.

2/8 per lb., Packed in 4lb. tins. 16 lb. 2/6. 28 lb. 2/5.

**EUCALYPTUS and MENTHOL PASTILLES, 3/- per lb.**

# POTTER & CLARKE, LTD.

60/64 ARTILLERY LANE, LONDON, E.1.

And at 24 LUNA STREET, GREAT ANCOATS, MANCHESTER.



## COMPOUND SULPHUR TABLETS

Containing Sulphur B.P., Cream  
of Tartar, Refined Sugar, Orange  
Flavoured, Guaranteed Pure.

Packed in 7-lb. Counter Boxes **2/2** per lb.

## BISMUTHATED MAGNESIA TABLETS

Antacid and Refrigerant

Packed in 7-lb. Counter Boxes **3/-** per lb.

## "DETERGOL" An Ideal Antiseptic Deodorant

**No. 1 - 7/6 per gallon. DISINFECTANT**

Contains 20% more Cresol than any other  
similar preparation. Surgical Instruments can  
be safely sterilised and disinfected in a few  
seconds without danger of corroding by using  
"Detergol." Used by the Medical Profession  
for fourteen years.

**"DETERGOL" No. 2 - - 4/6 per gallon.**

For ordinary disinfecting purposes, miscible in water.

Carriage Paid on orders of £5 and upwards in the U.K.

**TABLETS, PILLS, etc., and CHEMICAL AND  
MEDICINAL PREPARATIONS of all descriptions**

Manufactured by

**HOUGH, HOSEASON & CO., LTD.**

**Wholesale Manufacturing Chemists - MANCHESTER.**

# Petroleum Jelly

White, Yellow, Amber,  
& Ruby Red, for all  
Pharmaceutical and  
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.  
LIVERPOOL - MANCHESTER - LEEDS.

## Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow  
and golden, for pharmaceutical  
purposes.

MANUFACTURED SOLELY BY

**The Dee Oil Company, Ltd.**

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs and smaller  
packages according to requirements.

Inquiries are solicited for this article  
of **British Manufacture**, and  
buyers may rely that for quality and  
price, it will meet any competition.

Other Grades

**Petroleum Jellies, White Bases, &c.**

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

Wires "Cestrian Liverpool."

TECHNICAL AND MEDICINAL  
WHITE OILS.

PETROLEUM JELLIES.

PARAFFIN WAXES.

NEUTRAL OILS,

Debloomed and Undebloomed.

PALE & RED LUBRICATING OILS

CYLINDER OILS.

**W. J. SMITH,** SOLE EUROPEAN  
REPRESENTATIVE,

**THE JAMES B. BERRY'S SONS CO. Inc.**

110 Cannon Street, London, E.C.4.

### Wells' Removable Bung Pour (PATENTED).

For emptying Casks  
without Pump, Tap or  
Stillage. Applied to and  
removed from any cask  
instantly. All waste and  
mess prevented. More  
rapid in action than a  
pump. Will fit any  
ordinary cask from 20  
to 60 gallons.

Does not damage the  
cask.



**A. C. WELLS & CO.** 90 Midland Road,  
St. Pancras, N.W.1 **LONDON.**



# Petroleum Jelly

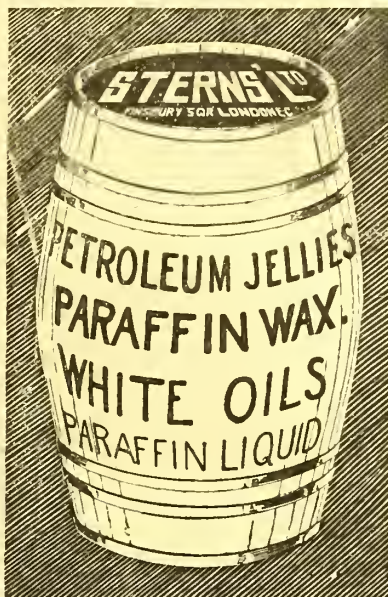
## K. MALMBERG

110 Cannon St., London, E.C.4.

AND AT NEW YORK.

Telegrams :  
"Obtempero, Cannon, London."

Telephone :  
City 6321.



### STERNS LIMITED

A.D.5., Royal London House, Finsbury Sq., E.C. 2.

Telephone :  
CLERKENWELL 1875.  
(Three Lines)

Telegrams :  
"CENTUMVIR, PHONE, LONDON."  
(Two Words only.)

PURE

## OLIVE OIL

## OLIVE OIL

(GENUINE CASTILE)

## SOAP

LEON FRENKEL,

10 Lime Street, LONDON, E.C.3.

## CORRUGATED PAPER

### ROLLS, SHEETS, BOXES (collapsible)

Cartons, "Cut Pieces," Strong Outers,  
for every description of Packing.

Keenest Prices. Quick Delivery.

*Inquiries Welcomed.*

The Guildhall Corrugated Paper Co.

Guildhall Buildings, Navigation Street,  
BIRMINGHAM.

Telegraphic Address :  
"Corrucarb," Birmingham.

Telephone :  
Central 4291.

# ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED  
IS MANUFACTURED BY

**THE PHARMACEUTICAL LANOLINE CO.**

Carnwath Road, Fulham, London, S.W.  
WHO INVITE INQUIRIES.

## METHYLATED SPIRIT

**OILS AND CHEMICALS**

*Buy from one of the oldest houses in the trade.  
Write for Prices. Established 1794.*

**SAMUEL THORNLEY, Ltd., Birmingham.**

## ADEPS LANÆ B.P.

**"ULTRAVI" Brand.  
The Latest & Best.**

*— Inquiries Invited. —*

THE  
**C.V.O. Chemical Works,**  
LIMITED,  
Petersham Road,  
**RICHMOND (SURREY).**

## WOOL GREASE ALL GRADES.

**K. MALMBERG,**  
110 Cannon Street,  
**LONDON, E.C.4.**  
AND AT NEW YORK.

Telegraphic Address:  
"Obtempero, Cannon, London."

Telephone No.:  
City 6321.



# OLIVE OIL

The position is very acute, and it is almost impossible to obtain further shipments. Buy your requirements of Edible Oil before :: the season commences. ::

**FINEST FRENCH.** The best quality on the market.

**FINEST SPANISH.** Cream Edible.

---

We can also supply very advantageously :

**ESSENTIAL OILS (all descriptions)**      **CASTOR OIL**  
**CREAM OF TARTAR, 99/100 B.P.**    **SARSAPARILLA**  
**LIQUORICE BLOCK AND STICKS**      **HYDRASTIS**

**CASTILE SOAP**      **WHITE**  
   **MOTTLED**  
   ETC. ETC.

---

**LOWEST PRICES.**      **HIGHEST QUALITY.**  
**STRICTLY WHOLESALE.**    **SAMPLES, PRICES**  
**AND FULL PARTICULARS ON APPLICATION.**

---

**F. CHIESMAN & CO.,**  
**59 ST. MARY AXE - LONDON, E.C.3.**

Telegraphic Address : "PALUSTRIS, LED, LONDON."  
Telephones : - AVENUE 63 (2 lines), 6994.

**AND AT LIVERPOOL, GLASGOW, BRISTOL, ETC.**

# WINGARNIS

## Sells readily ALL the time.

COLEMAN &amp; CO., Wincarnis Works, NORWICH.

### IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.  
FOR QUOTATIONS apply to—

## PRESTON'S LIVERPOOL DISTILLERY CO., LD.

The Largest Makers in the United Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office; 4 India B'gs, Water St, Liverpool.

# PURE ORANGE WINE

## A. MILLAR & CO., LTD., DUBLIN

VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale or

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.3.

# Extract of Malt

and

# Cod Liver Oil

IN BULK, JARS OR TINS.

Prices on application.

## THE BRITISH DIAMALT CO.

BISHOP'S STORTFORD.

Proprietors { H. A. & D. D. TAYLOR  
H. D. & C. T. TAYLOR

When consulted about

# Diabetic Foods

remember the advantages  
of the "ENERGEN" Brand.

*Prescribed by leading Specialists.  
Carry a good profit to the Chemist.  
Inquiries invited.*

## Therapeutic Foods Co.

19c Roundwood Road, Willesden, N.W. 10.

# "TAPON"

(Regd.)

Tie up your Parcels with Advertising Tying Tape. Pleases both Eye and Pocket and gives Distinction to every Parcel sent out.

Various Colours and Widths. Printed or Plain.

Write for particulars when Prices and Patterns will be forwarded.

## S. D. SIMOND & CO., LTD

10 Monument Street - E.C.3

Tel. : Avenue 6378.

Telegrams: "Duncasim London."





The Display of well-advertised high-class lines marks the progressive trader, and attracts the best customers.

## FAWCETT'S Natural Process BARLEY

Yorkshire Pearl Barley Mills Ltd.  
CASTLEFORD, YORKS. ENGL.

## NEW PRICES OF



Increased cost of manufacture compels a rise in the prices of "New-Skin" as follows:

	Retail Prices		Trade Prices
Pocket Size 10½d.	} Corresponding Increase in Trade Prices		8/5
Medium „ 2/-			19/2
Physician's „ 3/-			28/9½
£3 and upwards		Carriage Paid.	

MODERATE STOCKS ARE NOW IN HAND.

Order through your Wholesaler, or direct—

**J. E. GARRATT,**  
96 SOUTHWARK STREET, LONDON, S.E.1.



The Finest Quality Aerated Waters are made only with the Finest Quality  
**ESSENCES**

## BOAKE ROBERTS'

Soluble Essences are of the finest quality and being extremely concentrated are most economical

Lemon	Ginger Ale
Orange	Stone Ginger (Cloudy)
Ginger	Clear Ginger Beer
Raspberry	Kola Champagne
Strawberry	Lime Juice and Soda
Pineapple	Lemon Squash Vanilla

*A. Boake, Roberts & Co. Ltd.*  
Stratford, London, E.15.

# CARVER'S TONIC SALTS

A COMBINED NERVE TONIC AND BLOOD PURIFIER.

Invaluable for Keeping  
the Liver and Kidneys  
Active.

Attractively packed.

Shows 50% Profit to you.

Price in gross lots,  
per 100/- gross.

Carriage Paid.

Less Special Stocking

Bonus of 5 %



A scientifically prepared  
Effervescent Saline,  
possessing medicinal  
properties superior to  
the ordinary Health Salts

## A FREE TIN

will be sent for your  
personal trial on receipt  
of application on letter  
heading.

Sole Proprietors—

4 oz. Size Retail at 1/-

**JOHN CRAMPTON & CO. LTD.** DEANS GATE, MANCHESTER.

# CLARK'S LIVER SALT

Makers :

NEWBALL & MASON,  
NOTTINGHAM.

Proprietors of MASON'S  
EXTRACT OF HERBS  
and WINE ESSENCES

Please ask for quotations.

# BURROW'S MALVERN WATERS

(Bottled only at St. Ann's Well, Malvern)  
**BRITISH and BEST of TABLE WATERS.**

BURROW'S MALVERN WATER (still). The  
Purest Natural Spring Water.

BURROW'S MALVERN WATER (sparkling).  
The Natural Water simply Aerated.

**"Malvernia"**  
(MOLLY)  
An Alkaline Sparkling  
Table Water, invaluable in cases of  
Gout, Rheumatism, Acidity, Stone,  
Gravel & Kidney Complaints.

Mixes well  
with Wines  
and Spirits.

**BURROW'S GINGER ALE, LEMON-  
ADE, GINGER BEER,** prepared with the  
MALVERN Water, and only the purest  
and most reliable ingredients are employed.

Price List and all particulars may be had upon application  
to:—W. & J. BURROW, LTD., THE SPRINGS, MALVERN;  
or from the Sales Management 26 LONDON STREET,  
PADDINGTON, LONDON, W. Telephone: Padd. 1810.

Distributing Centres:

London, Liverpool, Brighton, Southampton, Newcastle, Leeds.



# BISHOP'S Natural Fruit Saline.

## THE BEST SELLER.

This preparation, our latest Saline, made by our special process, without **Sugar** or **Saccharine**, is a unique Saline. It is strongly effervescent and delightfully palatable, making a bright, refreshing draught which acts as a mild but very thorough aperient, anti-acid and liver stimulant.

**Bishop's Natural Fruit Saline** is taken regularly with pleasure and safety by men, women and children all the year round. This steady demand makes it a profitable winter line. It keeps perfectly in all climates.

The Wholesale price is **20/-** per doz. On £5 lots, discount **10%**, and carriage paid.

The P.A.T.A. Retail Price is **2/3** per bottle.

This ensures a profit of **9d.** per bottle to the chemist.

*Prepared only by*

**ALFRED BISHOP, LIMITED, 48 Spelman Street, LONDON, E. 1.**

## LOSALL'S SALT

**SELLS FREELY & READILY**  
**PAYS 50% ON OUTLAY**

**An Infallible  
Remedy for**

**GOUT,  
RHEUMATISM,  
ECZEMA,  
and  
SKIN  
AFFECTIONS.**

P.A.T.A. Doz.  
4 oz. 1/- 8/- net  
Tins  
8 oz. 1/10 15/- "  
Tins  
Bottles 2/6 20/- "

*The only line of its  
kind on the market.*

**SOLD  
EVERYWHERE.**

Manufactured by  
**LOFTHOUSE & SALTMER, Ltd., HULL**



# VITMAR

The Medical Profession are recommending **VITMAR** for delicate children and Invalids.

If you do not yet stock it your wholesaler will supply you.

Manufacturers :

**CALLARD & Co.**

*Food Specialists,*

**74 REGENT ST., LONDON, W.1**



## Reduction in Price

Selling Price **6d.** per Pair.

Trial Three Dozen assorted sizes in substantial carton for counter or fitting **12s. 6d.**

If cash with order **12/-**

Stock Boxes containing Six Dozen assorted sizes from which carton can be refilled **24s. 0d.**

2d. per dozen allowance if cash is sent with order.

Send for Sample Pair (state size) and Showcard.

**Over 56% Profit on Outlay.**

Stocked by all Sundriesmen, or direct from—

**The Curasol Sock Co.,**

Remittances should be by Postal Orders, Money Orders, or Cheques, and crossed *a/c* Payee, Lloyds Bank.

**19/20 Garlick Hill,  
London, E.C. 4.**

## Real Good Lines

**Pumisope** "The Hand Cleaner."

**Dry Cloth-cleaning Balls**

(All Colours)

**Precipitated Chalk**

(Powder)

**Prepared Chalk**

(Powder and Cones)

**Fancy Boot-top  
Cleaning Balls**

(All Colours)

**Magnesia, Rouge,  
&c.**



**HANCOCK'S, LTD.**

"The Factory," OLD BATTERSEA, S.W.11.  
WHOLESALE: Write for QUOTATIONS.



Your Inquiries Esteemed for

**Surgical Dressings  
Chemists' Sundries  
Sanitary Specialities  
Bathing Requisites  
Vacuum Flasks**

Write or Phone—

**ARTHUR BERTON, Limited**

15-17 Worship Street - LONDON, E.C. 2  
MANCHESTER and GLASGOW.

Telegrams: "Aybelim, Finsquare, London."  
Phones: Clerkenwell 1347, 1348, 1349 (Private Exchange).



*The Brand "Ingram's London" is a Guarantee of Quality.*

The India Rubber Hot Water Bottle with a reputation for Reliability, Perfect Construction, and Adaptability to all Conditions.

INGRAM'S

*"Eclipse"*  
REGD

**HOT WATER  
BOTTLE**



Fitted with a Washer that cannot be lost, and made with a Neck that cannot Leak.

*Obtainable through all  
Wholesale Houses.*

**SHOWCARDS FOR CHEMISTS.**

A supply of neat Showcards for window or shelf display,  $6\frac{3}{4}$ " by  $5\frac{1}{2}$ ", will be sent on application.

INGRAM'S  
BRITISH-MADE  
**Seamless  
ENEMAS**

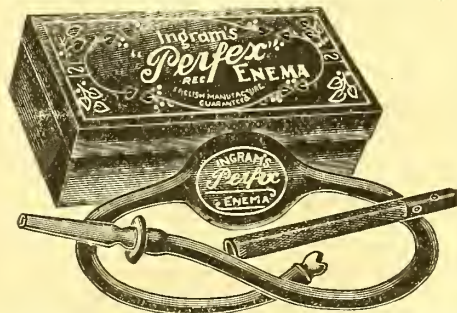
THE "ZEBINA" ENEMA (Regd.)



Guaranteed Not to Split (Ordinary Bulb).

Practical Workmanship. Perfect Construction.  
Fitted Complete with Bone Rectum and Gum Vagina Pipe  
and Leather Shield, and packed in an attractive Card Box.

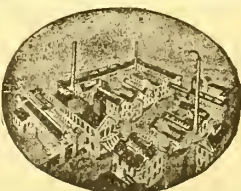
THE "PERFEX" ENEMA (Regd.)



A Reliable Quality Seamless Enema (Ordinary Bulb).

Perfectly Safe. Perfectly Hygienic. Fitted Complete with  
Bone Rectum and Vagina Pipe and Leather Shield, and  
packed in an attractive Card Box.

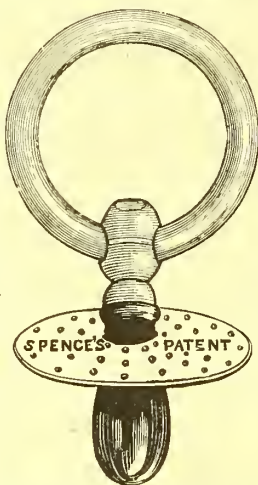
**J. G. INGRAM**  
THE LONDON INDIA  
Established 1847  
HACKNEY WICK, E. 9.



**& SON, LTD.**  
RUBBER WORKS,  
Telephone: 1406 East,  
LONDON, ENGLAND.

# SPENCE'S SOOTHERS

This is  
a  
Speciality  
of ours—  
Best  
Quality  
Well-Fitted  
and  
Attractively  
Carded.



Stocked in  
78  
Varieties.  
All Good  
Selling  
Lines and  
well-known  
to the  
Public.

A complete set of Samples can be sent upon receipt of Postal Order value £1.7s. 6d., OR a good selection for 10/6, carriage paid.  
(Money returned in full if not satisfied.)

Representative can call in London and Suburbs with Samples, upon receipt of Post Card.

**H. B. SPENCE,** 44 THORNE ROAD,  
SOUTH LAMBETH, S.W. 8  
Telephone: Brixton 1772.

# RENÉ HEYMANS

9/10 DOMINGO STREET

Tel.: CITY 3765.

36 OLD ST., E.C.1

## Vulcanite DOUCHE FITTINGS

„ Spare Parts  
„ Enema Pipes  
„ Whirling Spray Canules

## BONE SHIELDS

## BONE MOUNTS

## BONE RINGS

French CAPPING SKINS (opaque and transparent)

## TOOTH COMBS

(Best Galali)

## POCKET COMBS

Cheap lines in NAIL FILES (bone and steel) carded.

SAFETY RAZORS and spare blades.

## French SHAVING BRUSHES

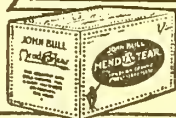
NAIL CLIPPERS.

## TOOTH BRUSHES

at low prices.

And all kinds of Surgical and Hygienic Rubber Goods.

# Mend-a-Tear



The Customer's  
Gain is Your Gain.

A shilling carton of Mend-a-Tear will save the customer's time and clothes. And every carton sold carries a handsome profit for the dealer. Are you effecting this most happy combination?  
**LEICESTER RUBBER CO. LTD.**  
18 Granby Mills, Leicester.



1290A

# BESORBON

**Richard Dickeson & Co.,** (Incorporated with Reynolds, Sons & Co., Ltd.)  
57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE  
FINEST REMEDY FOR CATARRH & COLD  
IN THE HEAD.

For Quick Clearance  
A limited stock of

## THE BRITISH Hollow-Ground RAZORS

(No. R. iii).

Price **25/-** Dozen

Black Vulcanite Handles

Samples sent if desired.

**JOHN MILNER & CO.**

Orient Works, Matilda Street, SHEFFIELD.

T.A.: "Intrinsic Sheffield."

T. No. 4147.

Best British Make.

The

## Kenley Seamless Rubber Works

Teats, Soothers, Finger-Cots,  
and every description of  
Surgical Rubber Goods.

Inquiries invited.

Samples submitted.


Wholesale and Export.

**W. G. WOOLACOTT, 76 Lower Road,  
KENLEY : Surrey.**



Style of Advert. in Local Paper.

**The Torture of the Boot**  
is not confined to the mediæval ages—every man or woman who suffers from corns knows that it is a very real torture of to-day. But why suffer corn torture when you can free yourself of the most stubborn or painful corn—hard or soft, of new or long standing growth, by just a few strokes of



**DE WILSON'S**  
*"Moovit"*  
**CORN PENCIL**

Over 200,000 customers have obtained permanent foot-ease with this easily applied remedy. Price 1/3; post 14. Nothing is "just as good"—insist on "Moovit".  
—Charles Tinale, 78 Baxtergate, Whitby.

# Your Business advertised FREE for 12 months

**YOU** can have your business advertised *free* for twelve months if you agree to take up a Sole Agency for "MOOVIT" Corn Pencils.

**C.** During the next few weeks we are going to appoint an Agent in every town in the British Isles, and we have decided upon the following offer.

**C.** If you send an order for 12 dozen "MOOVIT" Corn Pencils, we will make you Sole Selling Agent in your district, and we will insert an Advt. (as above—with your name thereon) in the local paper for 52 weeks. In other words, *you get twelve months' advertising FREE.*

**C.** And you do not require any special knowledge in order to successfully sell "MOOVIT" Corn Pencils, because our advertising in the Daily Press (together with the Advt. in your local paper, and your window display) makes the selling easy; and you get 5½d. on each stick you hand over the counter.

**C.** Twelve dozen "MOOVIT" Corn Pencils at 9½d. each cost £5/14/0, you sell them at 1/3 each, thus making a profit of £3/6/0. They are attractively packed in display boxes, with striking posters, dummies and advertising matter.

**C.** We guarantee to buy back any unsold Corn Pencils in your stock-room at the end of the twelve months if you feel you cannot dispose of them.

**C.** Isn't that a fair offer? Then send along your cheque for £5/14/0 NOW, before your competitor gets the agency.

*Sole Manufacturers :*

# TALBOT WILSON

(Howard Stevens & Co., Ltd., Proprietors)

**20 Highgate Road, LONDON, N.W.5**

## Pain and Pressure "Just There"



indicates Metatarsal Arch trouble. In all cases of Morton's Toe, Metatarsalgia, and other Anterior Arch troubles, Dr. SCHOLL'S Anterior Metatarsal Arch Supports afford instant relief and permanent correction.

There's an equally effective SCHOLL Appliance for every foot ailment—flat foot, weak foot, cramped and hammer toes, etc.

# Dr. Scholl's Foot Comforts

are well advertised, and as a result the demand is constantly and rapidly growing. This season already promises to be a record one. Why not share the profits to be made?

We shall be pleased to send full details of the popular and profitable SCHOLL proposition on receipt of inquiry. Send us your name and address to-day.

**THE SCHOLL MFG. CO., LTD.**

1-4 Giltspur Street :: LONDON, E.C. 1.

## COMPRESSED MOSS

**SPHAGNUM.**—The Turf Moss is the *most absorbent* and generally useful surgical dressing. It absorbs twenty times its weight of moisture.

As compressed by us in sheet form it is pre-eminently convenient. The sheet may be used as it is, or loosely crushed and placed in extemporaneous muslin bags.

The moss in this form swells up the moment the moisture comes in contact with it, and the dressing so formed is *resilient, spongy, and comfortable* to the patient.

Being compressed, it is ideal for storage and transit.

SAMPLES AND PRICES AT YOUR DISPOSAL.

## W. MARTINDALE

10 New Cavendish Street, London, W.

Telegrams: "Martindale," Chemist, Wesdo, London (3 words).

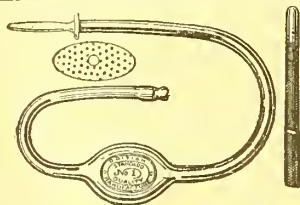
Telephones: Gerrard 4688; Paddington 1979

## ELASTIC GUM SURGICAL INSTRUMENTS.



Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Esophageal Instruments, Horse Catheters and Cattle Probangs. Wholesale and Export only. Price List from the Manufacturers.

**MASON BROS. & CHAPMAN, 107 Whitecross St., LONDON, E.C.1.**



## ENEMAS

Whirling Sprays and  
Surgical Rubber  
Goods

of all descriptions.

Wholesale only. Prompt delivery.

Manufactured by

**THE BRITISH RUBBER MANUFACTURES, LIMITED.**

Offices: 161 New Bond St., London, W.1. Works: Agnes Works, Agnes Road, Acton, W.3.

Sole Agents: H. & W. GREER, LTD., Greer House, MOORFIELDS, LONDON, E.C.2.

Phone: City 8246.

Telegrams: "Orubelarco, Phone, London."

## RUBBER GOODS ALL KINDS

TEATS, ENEMAS, ETC.

**THE LONDON RUBBER CO.,**  
183 Aldersgate Street, London, E.C.1

For GUARANTEED

## ATOMIZERS and SPRAYS

**THE DEVILBISS CO., LIMITED,**  
71 NEWMAN STREET, LONDON, W.1.

SEND US  
YOUR  
PROBLEM

## Breathing Apparatus and Respirators

For Work in Poisonous, Noxious and Irritant Fumes, etc.

**SIEBE, GORMAN & CO., LTD.**

187 WESTMINSTER BRIDGE ROAD - - LONDON, S.E.1

WE WILL  
ADVISE  
FREE



# FLOROZON

Disinfecting and Deodorising

## SPRAYERS

IN CONJUNCTION WITH THE

## FLOROZON ESSENCE

ARE A SAFEGUARD AGAINST ALL

## DISEASES and INFECTIONS

For use in Hospitals, Nursing Homes, Private Dwellings,  
Public Institutions, and everywhere where large  
numbers of people assemble, Railway Stations, etc. etc.

---

ILLUSTRATED PAMPHLET AND PRICES ON APPLICATION.

---

*Sample of the Essence on request to the Sole Manufacturers—*

# HERTZ & CO.

ESTABLISHED 1887.

OFFICES—

9 MINCING LANE E.C.3.

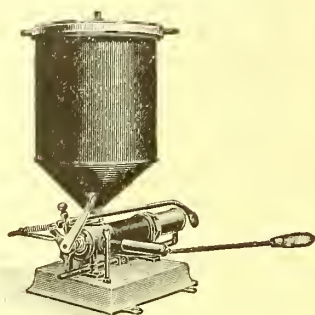
Warehouses, Factory & Laboratory—

20 BEVIS MARKS, E.C.3.

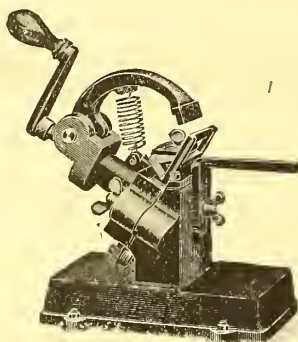
Telephone: 10607 CENTRAL.

Telegrams: "FRESHNESS, FEN, LONDON."

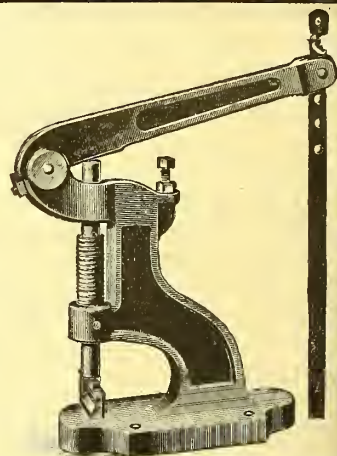
Code: A B C (5th Edition), and Private Code.



MACHINE for FILLING COLLAPSIBLE TUBES. From 1 to 10 gallons CAPACITY. Output 30 to 40 gross tubes per day.



MACHINE FOR CLOSING AND FOLDING COLLAPSIBLE TUBES. Suitable for all sizes of tubes.  $\frac{3}{8}$ " to  $1\frac{1}{2}$ " dia.



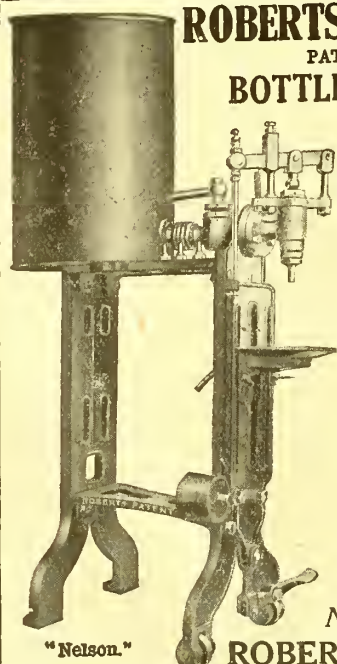
MACHINE FOR FIXING CLIPS to ends of collapsible tubes.

Can be seen in operation at—

# BROOKS, PEEL & CO., LIMITED

24 CITY ROAD, LONDON, E.C.1.

MANUFACTURERS of Collapsible Tubes in LEAD, TIN-COATED and PURE TIN. SPRINKLERS for PERFUMES, BRILLIANTINE, CREAM, &c. SCREW-CAPS for JARS, &c., in WHITE or LACQUERED TINPLATE, NICKELLED ZINC, ALUMINIUM, &c. SHAVING-STICK CASES, LIP SALVE TUBES, &c. &c.



## ROBERTS' ORIGINAL PATENT BOTTLE-FILLING MACHINES

Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for **CLEANLINESS SIMPLICITY, and Rapidity in Bottle Filling.**

NOTE the address

**ROBERTS' PATENT FILLING MACHINE CO.,**  
33 ROUNDCROFT ST., BOLTON.

OUR LATEST PATENT "ALPHA" PRICE £14, WILL FILL 10 GROSS BOTTLES PER HOUR.

Write for Particulars.

All rights reserved.

## INCREASE YOUR OUTPUT AND SAVE LABOUR

BY USING THE

## "CENTRAC" FILLING MACHINES



The Best and Cheapest Machines on the Market

For TUBES, POTS, JARS and BOTTLES

Used by all Leading Firms

Send us your requirements

Bottle-Filling Machine.

Sole Makers—

**The Banister Street Works, Ltd**  
ENGINEERS,  
45 High Street, HOMERTON, E.9.



# APPRECIATION!

DEAR SIRS,—The Bottle Drying Machines have worked satisfactorily from the beginning; in fact, we do not know how we should have managed without them.

We find the Dryers particularly useful when dealing with "rush orders," which call for large quantities of bottles, as the bottles can be washed and dried—in considerable quantity—inside an hour, whereas under the old system it would have taken the best part of a day, and then the bottles would not have been so completely dried as under the present system.


Yours faithfully,

W. B. CARTWRIGHT, Ltd.,  
Rawdon, near Leeds.

**Sutcliffe Ventilating & Drying Co., Limited,**  
Cathedral Gates, MANCHESTER.

Telephone No. : CITY 3920.

Telegraphic Address : "VENTILABRO."



**E. FORSHAW & SON LTD** TEL/23.  
SOAP AND CHEMICAL PLANT MAKERS.  
WARRINGTON, ENGLAND.



**SOAP & CHEMICAL BOILING PANS**  
**STEAM JACKETED PANS**  
**MIXING PANS**  
**EVAPORATORS, STILLERS &c**  
**AND EVERY DESCRIPTION OF**  
**SOAP AND CHEMICAL PLANT.**





**Nº 1 Plant** For Experimental purposes.

**Nº 2 Plant** Output 100 to 200 pounds per day

**Nº 3 Plant** Output 300 to 400 pounds per day

**Nº 4 Plant** Output 800 to 1000 pounds per day

**Nº 5 Plant** Output 2000 to 2500 pounds per day

**Nº 6** large combined triple granite roller mill with triple rotary cutter. Granite rollers 72 inches long, 20 inches diameter

**Nº 7** improved multi-plate roller-milling and mixing mill made with 10 or 14 rollers. This mill may be used in conjunction with our Nº 6 or Nº 7 plodder. Output 3 tons per day

**Nº 8** mammoth plodder with reduction gear for motor drive. Output 3 tons per day

**Nº 9** Grant Bronze lined plodder. Output 2 tons per day

**Toilet Soap** Cutting Machine

**Rotary Cutter** or Shredder

**Nº 10** Grant Quadruple Roller Mill. Output 2 tons per day

Established 1848  
Telephone Nº 123

**E. Forshaw & Son Ltd**  
SOAP AND CHEMICAL PLANT MAKERS.  
WARRINGTON, ENGLAND.

**MILLED TOILET SOAP PLANT.**  
HOUSEHOLD AND LAUNDRY SOAP PLANT.  
GLYCERINE EXTRACTION PLANT.  
CAUSTICIZING PLANT.  
TALLOW MELTING PLANT.

# R. LECONTE & CO.

Established 1889.

MANUFACTURERS OF

Established 1889.

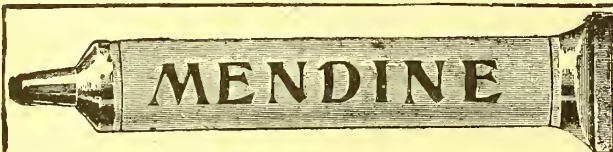
## CAPPING MATERIALS

Suppliers of CORKS, RIBBONS, BOWLETTES, TWINES, GOLD CORD,  
SPLIT SKINS, PLASTERS, SKINS.

Phone: CLERKENWELL 1588.

Wire: "ETNOCEL, AVE, LONDON."

Write: 7 & 8 SOUTH STREET, FINSBURY, LONDON, E.C. 2.

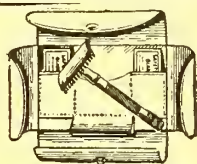


**MENDS EVERYTHING.**

### A PERFECT Liquid Glue CEMENT

Made from the finest materials obtainable. Guaranteed to retain its efficiency for Six Years. In 2d., 3d., 5d., & 7d. Tubes. Boxed in dozens. Also in Bulk for Carpentry, Joinery and Aeronautical Works etc., 1-lb., 1-lb., 14-lb., and 28-lb. Tins.  
Indent through Merchant Shippers. Export Cases at Cost, f.o.b. London.

**MENDINE CO.** (Sole Proprietor, FRANCIS W. COOMBE)  
8 ARTHUR ST., LONDON BRIDGE, E.C. 4



### Tip-top Quality at Popular Prices.

Sheffield make.

SAFETY RAZORS beyond compare at moderate prices is our inviting offer to all who have a market for HIGH GRADE SHAVING APPLIANCES. Mirfin's Safeties are made in 7 styles, Gillette Pattern, Curved Frames, Silver-Plated, with finest finish.

Write for Wholesale and Export Terms: **JAS. MIRFIN & SON, LTD.,**  
32 Arundel Street, SHEFFIELD.

## REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

**GOLD LEAF AND GOLD POWDERS**

WHOLESALE ONLY.

**E. WINTER & CO. LTD.**

Head Office: 64 Cheapside, London, E.C. 2.

TELEPHONE: Central 985.



**HERMETIC**  
SELF-FIXING  
WASHABLE  
**BOTTLE CAPS**

The Best. The Strongest. The Cheapest.  
**IMMEDIATE DELIVERY.**  
Transparent or Opaque or Coloured.  
**VISCOSE CO., Ltd., BROMLEY, KENT.**

## CAPPING SKINS

**WHITE AND COLOURED SPLITS,  
OPAQUE AND TRANSPARENT  
BAUDRUCHE. SPRINKLERS.**

**ARTHUR TOOMBS & CO.**

Perfumers' Sundriesmen,

26-27 Bush Lane, Cannon St., LONDON, E.C. 4.

Telephone: Central 13374.

Telegraphic Address: "Deflection, Cannon, London."



WE MAKE IN ENGLAND

# GLASS BOTTLES



WE import from our special works in France and Belgium all kinds suitable for Chemists, Perfumers, Essence Manufacturers and all kindred trades. We are in a position to give prompt deliveries of reasonable quantities in a reasonable time. Prices on application.

STOCKS OF VARIOUS SHAPES & SIZES.

**A. Ruch & Co., Ltd.**

*Geo. G. Forsyth,*

28 MARTIN LANE, CANNON STREET,  
LONDON, E.C. 4.

Telegrams—"Sennoek, Cannon, London."  
Telephone—Central 4799.

## OINTMENT TINS

(DECORATED).

Boracic Cold Cream  
Zinc Camphor Ice.

25-Gross Lots from Stock.

## OVAL BRILLIANTINE TINS

Plain Colour and DECORATED to  
your DESIGN to order.

PLAIN and DECORATED  
TIN BOXES for all Trades.

*Please send us your inquiries.*

**P. GOODWIN & CO.,**

*Boston House,*

63/4 NEW BROAD STREET,  
E.C. 2.

OFFICES..  
GT TURNSTILE,  
HIGH HOLBORN.

WORKS..  
WHETSTONE PARK,  
LINCOLN'S INN FIELDS.

# FORD, SHAPLAND & CO. LTD

LABEL & GENERAL PRINTERS.

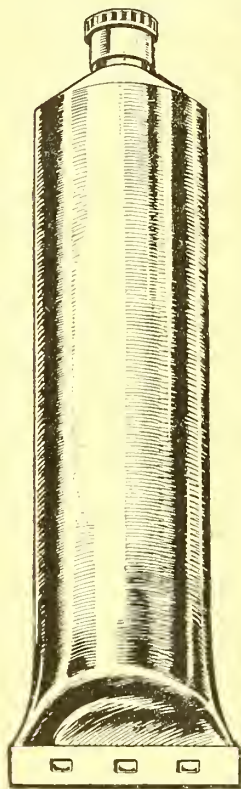
TELEPHONE  
CITY 65.  
TELEGRAMS  
FORSHAPCO,  
WESTCENT,  
LONDON.

SHOWCARDS · CARTONS  
ENVELOPES OF ALL KINDS,  
SHAMPOO, CORN SILK etc.

DENTAL & OPTICAL  
CIRCULARS.

GT TURNSTILE,  
HIGH HOLBORN,  
W.C.1.

AGENTS FOR THE REGISTRATION OF TRADE MARKS.



## Tubes that attract

Let your collapsible tubes be more than mere containers

REMEMBER—the prospective customers see the tube first. When you are ordering your next supply get Venesta Tubes, they have that quality and finish that is going to help you sell the goods.

Made in pure tin, lead, and lead coated with tin, plain, enamelled and printed with designs to customers' own requirements.

Write for particulars and current prices—your inquiries will receive our immediate attention.

## TIN FOIL

We also manufacture Tin Foil in sheets or reels, highly polished, plain, embossed or coloured, and suitable for every purpose.

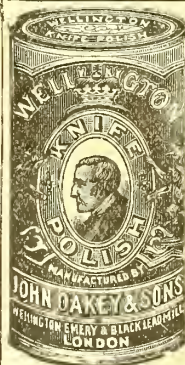
# Venesta Ltd

**Collapsible Tubes**

1. Great Tower Street, London, E.C.3

# Eau de Cologne Corkscrews

FRANK A. CONDUIT,  
SUTTON HOUSE,  
2 OLD STREET,  
LONDON, E.C. 1.



## Oakey's "WELLINGTON" KNIFE POLISH

The original and only reliable preparation for Cleaning and Polishing Cutlery, &c.

In Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

## JOHN OAKEY & SONS, LIM.

MANUFACTURERS OF

## Emery Cloth, Black Lead GLASS PAPER, &c.

### "WELLINGTON" KNIFE POLISH

The Original Preparation for Cleaning Cutlery.  
Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

### SILVERSMITHS' SOAP

For Cleaning & Polishing SILVER, ELECTRO-PLATE, etc. Tablets, 6d.

### "WELLINGTON" BLACK LEAD

In Solid Blocks, 1d., 2d., and 4d. each, and 1s. Boxes.

Polishing Paste, Furniture Polish, Plate Powder, Rouge, Urn Powder, Steel Polish, Crocus, Tripoli, Brunswick Black.

Westminster Bridge Road, LONDON, S.E. 1.



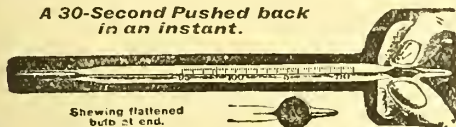
ZEAL'S REGISTERED

**Clinical Thermometer**

The "REPELLO"

Requires no shaking down.

Guaranteed Accurate.

A 30-Second Pushed back  
in an instant.Good  
Selling  
Lines for  
ChemistsShowing flattened  
bulb at end.**NEW IMPROVED LENS FINDER**The only Easy Reading Magnifying  
Clinical Thermometer on the Market.

IN FOCUS.



OUT OF FOCUS.

The square mark engraved on lens front  
locates the Mercury column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND 1907.

SILVER MEDAL, INDIA 1909. SILVER MEDAL, LONDON, 1913.

**G. H. ZEAL, 82 Turnmill St., LONDON, E.C.**

Wholesale Manufacturer of

**CLINICAL THERMOMETERS.**

CONTRACTOR TO H.M. GOVERNMENT.

Established 1888.

Telephone No. 12438 Central.



SMOKE

AND

FIEUZAL

EYE GLASSES  
SPECTACLESRIMLESS  
AND  
RIMMEDAND  
GOGGLES, etc.For Motoring,  
Cycling & all  
kinds of SportSAMPLES WILL BE SENT OF OUR  
VARIED STOCK ON APPLICATION TO**ELLIOTT OPTICAL CO.**

(GUY E. DRUIFF, Propr.)

104-105 GT. SAFFRON HILL,  
LONDON, E.C. 1.**John E. Raworth & Moss**

Chartered Patent Agents.

Patents, Designs and Trade Marks.

The Old Mansion House, AND 75 Victoria Street,  
75 Cheapside, E.C. 2. Westminster, S.W. 1.**ALL CHEMISTS  
SHOULD STOCK****ABDINE**

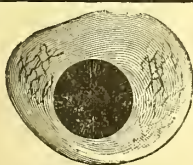
THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 years' Reputation.

"Abdine" is the most popular Health Drink, superior to all Mineral  
Waters. Sold in Packets, 2d. each.

Wholesale Prices on application. Sample Box 1/6.

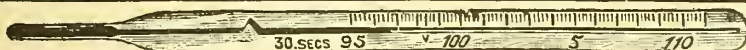
D. M'GLASHAN, M.P.S., [Abdine Works, Westfield Road, EDINBURGH.]



LARGE STOCKS OF

**ARTIFICIAL EYES**CLINICAL & INDUSTRIAL THERMOMETERS,  
READERS & MAGNIFIERS, EYE SHADES, EYE  
— BATHS, HEARING INSTRUMENTS, ETC. —

Catalogues upon application to

**JOHN BAIRD,** Wholesale and Manufacturing  
Optician,  
68 & 70 MITCHELL STREET, GLASGOW.**ASBESTOS  
FILTER  
FIBRE**Specially prepared for the  
filtration of Water,  
Beer, Spirits,  
Vinegar, Wines,  
Gelatin, Pharma-  
ceutical Products  
and Essences.**GIVES A CLEAR AND  
SPARKLING FILTRATE  
AT A MINIMUM COST.****PURE, NEUTRAL AND INSOLUBLE.**Write for Samples and Prices to  
**TURNER BROTHERS ASBESTOS CO., Ltd.,**  
ROCHDALE, England.Telegram: "THERMORIGI  
BRIGHTON."

TRADE MARK: "THERMORIGI," REGISTERED.

**E. S. ARRIGHI,****HEMICAL AND EXPERIMENTAL GLASS BLOWER AND THERMOMETER MAKER,**  
39 & 40 BOND STREET, BRIGHTON.Member of British Lamp-  
blown Scientific Glass-  
ware Manufacturers'  
Association, Ltd., and  
Glass Research Associ-  
ation.

## THE LUMEX SYSTEM

caters for THE TRADE ONLY, and carries with it tastefully compiled price lists, printed with your name and address, and suitable advertising matter which commands the attention of amateur photographers.

OUR 48 HOURS' SERVICE MEANS THAT FILMS OF PLATES ARE RETURNED TO CHEMISTS DEVELOPED AND PRINTED IN TIME TO HAND TO THEIR CUSTOMERS WITHIN 48 HOURS OF RECEIPT BY THEM.

WRITE FOR TRADE TERMS

Phone;  
4310  
Dublin

**LUMEX LTD.**

Telegrams;  
"Lumex,"  
Dublin."

DAME LANE, DUBLIN.

## FILMS! FILMS! FILMS! CHEMISTS! CHEMISTS! CHEMISTS!

You want your Films developed Quickly, Properly and Cheaply. Then send them to us!

**PRINTS!! PRINTS!! PRINTS!!**

We guarantee the Best Result from Every Film.

**TRY US—**

**"NOLA"—FILM EXPERTS,**

**117 TOTTENHAM COURT ROAD, W.1.**

Cheaper than you do it yourself. Send for Price List.

Phone us—Museum 117L.

## PHOTOGRAPHIC TRADE PRINTING, ETC.

**T. W. VAUGHAN PAUL**, expert in all branches of photography, has opened studios for the purpose of printing, developing, etc., of amateurs' plates and films for the trade.

Six medals have been awarded for technical, pictorial and colour photography.

All work dispatched by return mail.

**METROPOLE HOTEL, BEXHILL-ON-SEA.**

WORTHY OF NOTICE.

**R. J. DUBBIN, M.R.P.S.**

(Sometime Demonstrator with KODAK, LTD.)

**PHOTOGRAPHER, WALTON-ON-THAMES,**

UNDERTAKES DEVELOPING & PRINTING SPOOLS.

Best possible results Guaranteed, with quick Di-patch.  
Example of Prices: D. & P., V.P.K., or 2 BROWNIE, 1/-.  
Other sizes in proportion.

SPEED WITH EXCELLENCE.

**NASH, KENYON & CO., Ltd**

(Successors to CAVE'S PHOTO STORES)

**169 LORD STREET, SOUTHPORT.**

**Send Spools for Developing & Printing  
All Branches of Photography, undertaken  
Good work guaranteed.**

PRICE LIST AND TERMS ON APPLICATION.

## PIPES AND SMOKERS' REQUISITES

Price Lists on Application.

**HARWOOD BROTHERS.**

BRIAR PIPE MANUFACTURERS.

8/20 Richmond Street, LIVERPOOL.

SUPPORT EX-SERVICE MEN.

**DEVELOPING, PRINTING & ENLARGING  
OF FILMS & PLATES.**

Expert work guaranteed. Lowest London prices. Lightning service.  
Best possible results obtained. Write for Terms to:

**F. RAPLEY, Commercial Photographer,  
3 Silvin Street, Wandsworth Road, S.W.8**

Specialists in  
Photographic Albums  
of exclusive design

**Reginald E. Carter Ltd**

A very fine 12 Lower Seymour Street.  
range of Paste-on & slip-in Albums  
of exclusive and distinctive design  
at prices from 9d to 30/-  
Subject? Portman Square,  
London W

**DEVELOPING. PRINTING. ENLARGING.  
PRICE RIGHT. QUALITY RIGHT. SERVICE UNEQUALLED.**

All work returned within 24 hours. Enlargements 3 days. Send for Trade Terms.

**OUR NEW WORKS ARE NOW COMPLETE AND RUNNING.**

**PROMPT DELIVERIES GUARANTEED.  
JOIN THE LIVE DEALERS' SERVICE.**

**Wallace Heaton Ltd**  
INCORPORATING **WATSON'S  
CAMERA  
HOUSE**

**17-27 CHANGE ALLEY, SHEFFIELD.**  
Phone: 27, 255 & 3390. Grams: "ZODELLA, Sheffield."



*If you could see into the future-*



you would know exactly what risks to insure against. Unfortunately, you can't; so be wise and take out one policy that will give you perfect security.

*The* **POOL** COMPREHENSIVE SHOPKEEPERS' **POLICY**  
**COVERS ALL RISKS**

**Risks covered**

Fire, Burglary, Workmens' Compensation, Plate Glass, Public Liability, Third Party Drivers, Loss of Profits, Loss of Rent, Riot and Civil Commotion, Bursting Waterpipes, Storm, Flood and Tempest

**The Licenses & General Insurance Co. Ltd.,**

VICTORIA EMBANKMENT,  
Next TEMPLE STATION, W.C.2.

Funds Exceed £500,000

Founded 1890

**ANNUAL BONUSES.**



**BOOKS**  
**for Pharmacists**

Send us a postal card and we will send you a page catalogue of professional and business books for pharmacists, and a copy of

**"THE SPATULA"**

an illustrated monthly magazine for druggists, full of American snap and enterprise.

**THE SPATULA PUBLISHING CO.,**  
BOSTON 14, MASS., U.S.A.

**IF** you take Quality and Service into consideration you will find we fulfil all that is expected. We specialize in . . . .

**CHEMISTS'**

**LABELS and CARTONS.**  
Our Prices bear comparison with any competitive house.



*Thomas Waide & Sons*  
*Chemists' Printers*  
*Leeds*

We send full set of Samples for 10/6, and credit if orders are given for £10 and upwards.

# Qualifying ("Minor") Examination

UP-TO-DATE SYSTEMATIC CORRESPONDENCE COURSE.  
COMPLETE, THOROUGH AND INDIVIDUAL TUITION.  
COACHING IN INDIVIDUAL SUBJECTS.

## Special Revision and Preparatory Courses. SUCCESS ASSURED.

MANY TESTIMONIALS.

LOW INCLUSIVE FEES.

C. A. SCURR, M.P.S., F.S.M.C., F.I.O., 40 Courthope Road, Hampstead, LONDON, N.W. 3

### London College of Pharmacy

PRINCIPALS:

Henry Wootton, B.Sc. (Lond.), Chas. W. Gosling, Ph.C.

Revision Course for October Minor commences August 16.

Revision Course for January Minor commences October 5.

For Particulars of other Courses apply to the Secretary—

361 Clapham Road, London, S.W. 9

### PRELIMINARY EXAMINATION for PHARMACEUTICAL STUDENTS

THE College of Preceptors holds Preliminary Examinations in June, September, and December. All the Examinations are held at London, Aberdeen, Birmingham, Blackburn, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham. For the June and December Examinations there are other centres, including Blackpool, Brighton, Carmarthen, Cheltenham, Croydon, Exeter, Margate, Plymouth, Portsmouth, Sheffield, Southampton, Southend, Southport, Sunderland, Weston-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors, Bloomsbury Square, London, W.C.

### MECHANICAL DENTISTRY

To INCREASE YOUR PRACTICE send your Work

A. G. FENTIMAN.

Every case executed under personal supervision, thus facilitating giving complete satisfaction. Send for price list, &c., to (the only add.) A. G. FENTIMAN, 22 Duke St. (off Bishopsgate), Brushfield St., London. Telegrams: "Fentident Ave, London." Telephone: London Wall 7

## WILLS' UNIVERSAL POSTAL SYSTEM

For the QUALIFYING, PRELIMINARY &amp; APOTHECARIES' HALL EXAMINATIONS. FEE, £1 1s.

N.B.—Students who fail in Part I. of the Qualifying Examination can take a course of lectures on those subjects only in which they were unsuccessful, and so ensure success at their next attempt.

"Wills' Universal Postal System is really world-wide, for Mr. G. S. V. Wills, 190 Clapham Road, London, S.W., the originator has extended it to cover all pharmaceutical examinations in the British Empire at an inclusive fee of One Guinea, apart from postage."—*Chemist and Druggist*.

For Prospectus, Write or Phone the PRINCIPALS, Westminster College, 190 Clapham Road, London, S.W. 9.

### FREDK. FINK & CO.,

11 10 &amp; 11 MINCING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.



### SHADEINE

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses. Trial size 8d., per post 1/4d. Medium, 1/4d., per post 1/7d. Large, 3s., per post 4/8d. size 6/- doz.; 1/4 size 12/- doz. 3/6 size, 33/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

**CONSTANTLY ADVERTISED**

**ANTHONY LEIGHTON**  
BEST SHAMPOO FOR KIDIES.  
Keeps little heads clean and parasite free in a nice way, does all that is claimed and yields you a top-hole P.A.T.A. profit.

LET US SEND YOU 8 doz. & 1 doz. Bonus plenty of show cards, bills, wrappers, carrier bags etc.

**CARR. PAID. EACH DOZ**

**PATA 6° | 4/- | COST**

**NON-POISONOUS**

LEIGHTON LABORATORIES, 35 GRAYS INN ROAD, W.C.1.

**DATA 43% PROFIT**

### PRECIPITATED CHALK

Lightest and Whitest, also Purest Dense

Aug. Levermore &amp; Co., Ltd. 8-10 Gt. St. Helens LONDON, E.C. 3.

Telegrams: "Levermore London."

Telephone: Central 4613



### CACHETS "FINOT"

(White or Coloured).

With Inscriptions in any desired tint; also Plain or Embossed.

"A distinction all their own."—*C. & D.*Perfection of Cachets.—*Lancet*.

These Cachets are especially adapted for Headache, Neuralgia and other powders.

COOPER, SON &amp; CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON

In 17 Sizes, to fit the various types of Cachet Machines

### HAVE YOU TRIED OUT OUR OFFER

of 6 dozen and 1 dozen 6d. packets, along with full advertising in the window? Carriage Paid to your address. Sales are immediate direct.

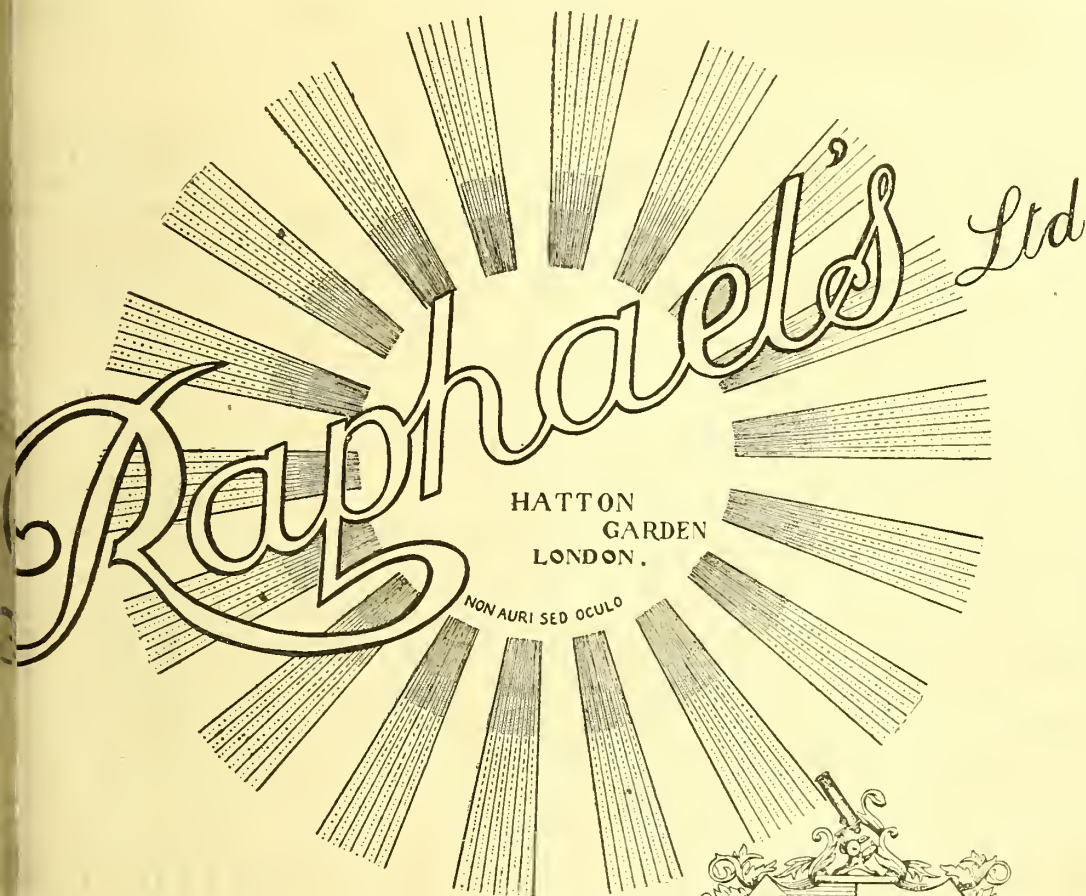
4/ PER DOZ.  
P.A.T.A.  
6°

### Quina Quenna

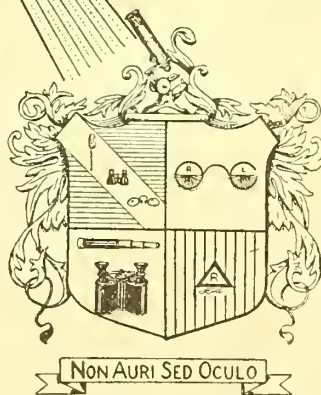
is shown because it is the subject of a big and clever campaign embracing all best media.

PER PACKET. CHRISTY'S Old Swan Lane, London, E.C. 4





Everything the  
Optician sells  
we stock.



Seasonable Lines

BINOCULARS

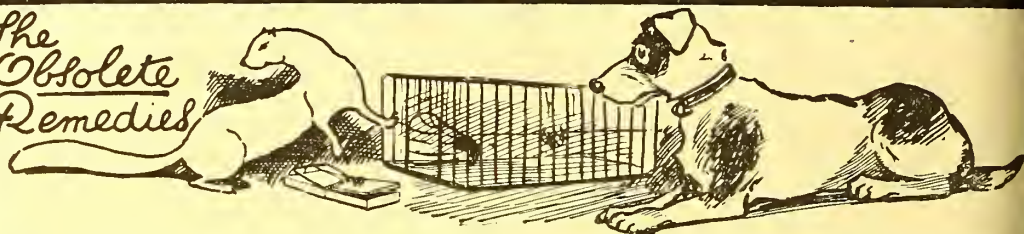


COMPASSES

ANTI-GLARE SPECTACLES & EYEGLASSES

For Summer Use

*The  
Obsolete  
Remedies*

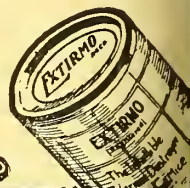
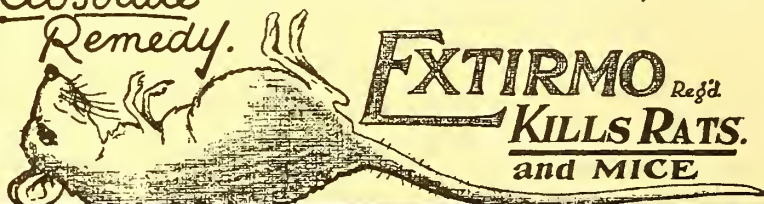


## A READY SELLING RAT POISON

of proven value. It is on the Government List. It always retains its effectiveness—therefore creates no bad stock. Now being advertised in the Press. Helping your sales and therefore ours. Extirmo retails in tins at 7½d., 1/3, 2/6, and 5/—, and shows you a splendid profit. *Are you stocking Extirmo?* Write to-day to the manufacturers for full particulars. Prompt deliveries for either Home Trade or Export.

*The  
Absolute  
Remedy.*

E. H. WRIGGLESWORTH, Ltd.,  
ST. ANDREW'S WORKS, HULL.

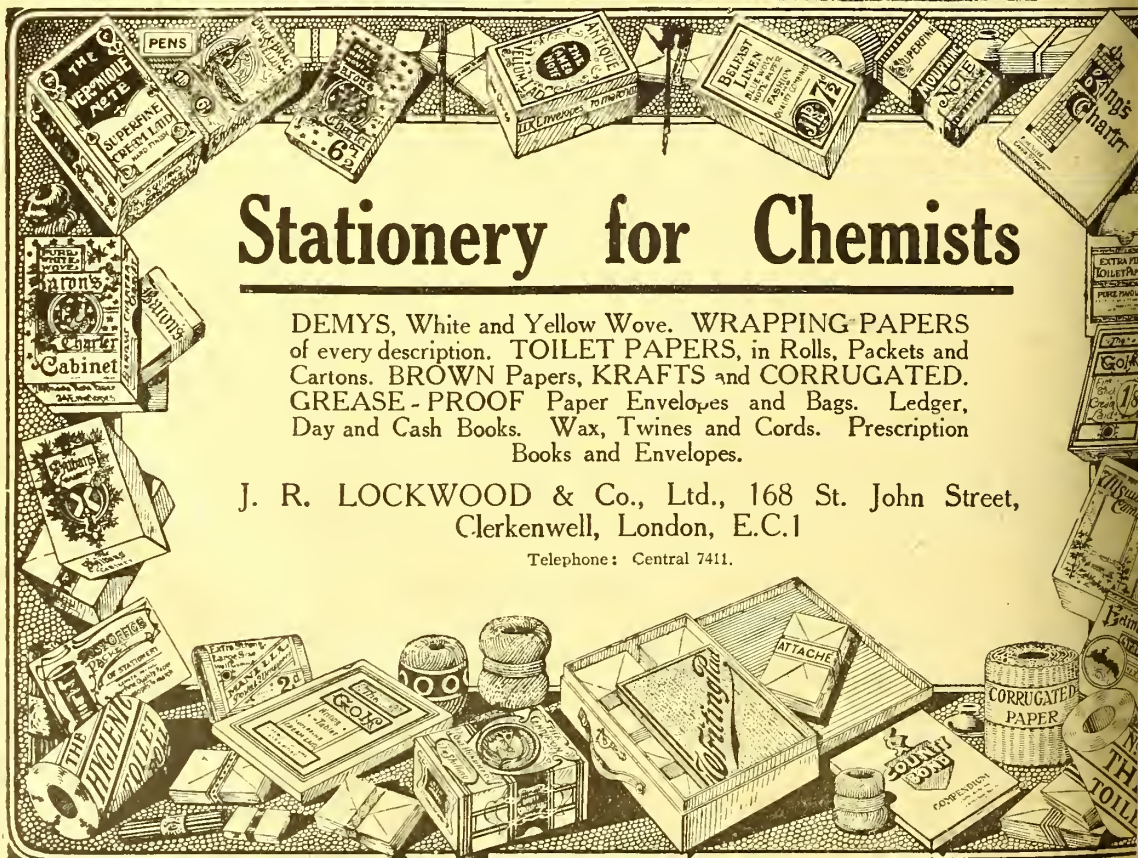


## Stationery for Chemists

DEMYS, White and Yellow Wove. WRAPPING PAPERS of every description. TOILET PAPERS, in Rolls, Packets and Cartons. BROWN Papers, KRAFTS and CORRUGATED. GREASE-PROOF Paper Envelopes and Bags. Ledger, Day and Cash Books. Wax, Twines and Cords. Prescription Books and Envelopes.

J. R. LOCKWOOD & Co., Ltd., 168 St. John Street,  
Clerkenwell, London, E.C.1

Telephone: Central 7411.







**Clean & Dry to Handle**

Retaining its adhesive condition long after opening, having a perfect drip-catcher, and efficiently carrying on its work of fly destruction, the Wasp Flyband has an enormous sale.

**WASP FLYBAND**

Buy you because it gives rapid turnover at a protected profit, clean and dry to handle, and is the most effective fly-trap ever sold. Write for prices.

Manufacturers—**W. HAMPSHIRE & CO., LIMITED, Riverside Works, DERBY.**

## STICKY FLYCATCHERS

Bands and Tapes.  
"FLYSAC," Tape. "VIPER," 2" and 4" Bands.

**"BIG BAT" FLYPAPERS.**

**"CHESHIRE" and "DAK" Birdlimes.**  
For Rats, Mice, etc.

**"ORBITE" Banding Material.**  
For Fruit Trees.

SOLE MAKERS—

**Ray Brothers Limited, Stockport.**

**MATTLE, MALTBY & BOWER**  
Victoria Chemical Works - LINCOLN.

MANUFACTURERS OF

**SHEEP DIPS**

(Liquid, Powder and Paste)

**CATTLE WASH**

**EMBROCATION**

(Veterinary and Household)

**WEED KILLER**

**DISINFECTANTS**

PACKED UNDER CHEMIST'S OWN NAME IF REQUIRED.

WRITE FOR PRICE LIST.

## ABOUT SHEEP DIPS

### VETERINARY REMEDIES


### OR DISINFECTANTS

Why not sell the lines that pay you best? Why not be prepared to accommodate your Farmer and Stock-breeder Clients with the Medicines that bring repeat orders? Would you like to take up a Bigg's Agency? We offer specially inviting terms for window displays and supply literature and price lists. We circularise your clients on your behalf if you send their names and addresses, or we shall print circular-letters for you to send. May we put up your Veterinary Lines for you, or your Disinfectants? Kindly write us for terms or lists. All our remedies are tested by Veterinary Surgeons and prepared under the supervision of Chemists.

**THOMAS BIGG, LIMITED**

CHEMICAL WORKS

CHURCH STREET, DEPTFORD, S.E. 8.



**Doomo Airship Fly Band**

Write for quotations.

A wide, long band, sticky on both sides.

**SMITH & CO.,**  
Doomo Works, Newark

**4d. "Oh, Joy!" Foot Salve. 4d.**

2 dozen neat Salve-sticks on an attractive card. A genuine self-selling line. Wholesale 2/8 dozen, subject. Retail 4d. each. Write for sample. Sample dozen on card, post free for 2/6. Liberal Terms to Wholesalers.

**W. B. DIXON, Ltd.**

(Managing Director: W. B. DIXON, Ph.C.)

Manufacturing Chemists, 17 Lord St., STOCKPORT.

## MORRIS, LITTLE & SON, Ltd., DONCASTER

**SHEEP DIPS** Poisonous and Non-Poisonous of all kinds.

**DISINFECTANT SOAPS** of all kinds.

Sole Proprietors and Manufacturers of  
**PHENOID** (formerly called PHENYLE).

*Largest Makers of Non-Poisonous Sheep Dip in the World.*

**DISINFECTANTS**

of all kinds, including  
**LYSOL SUBSTITUTE**  
and High Co-Efficients.

FINEST **BLACKS** AND  
**COLOURS**

(ALL SHADES)

**CARAMEL**  
**COLOUR**  
IN POWDER.

~~~~~

Guaranteed  
Harmless.

~~~~~

**50**

times the concentration  
of Liquid Caramel.

*Sample on application.*

Soluble in  
WATER SPIRIT  
OIL TURPS  
WAX BENZOLINE  
GLYCERINE NAPHTHA  
PETROLEUM CREOSOTE  
and  
IN FACT—ANYTHING.

**BLACK FOR INK.**

**MARKING INK.**

**ETERNITE**

A combined Stain and  
Preservative for Wood

**HOUSEHOLD DYES.**

**RHEUMSOL BATH SALTS**

In 1/- Tins.

**WILLIAMS BROS. & CO.**

Hounslow, Middlesex.



# WHITAKER & CO'S PAGE



"I should like to say that the Hat Dye gave me great satisfaction and I shall always recommend it."

WISBECH (Cambs.)

A specimen of many other unsolicited testimonials.

Your  
Lady Customers  
will be  
very pleased  
with

LOSSY SERIES supplied if desired. Special  
ON-INFLAMMABLE SERIES for Export

## LUTON STRAW HAT DYES

AND

## WHITAKER'S UNIVERSAL FABRIC DYES

STRIKING AND ATTRACTIVE SHOWMATTER SUPPLIED

Write to-day for Complete Price Lists and Patterns to  
**WHITAKER & CO., Colour Works, KENDAL**

Telegrams: "Dullette Kendal."

Telephone: No. 214.

London Office and Showrooms: Craven House, Kingsway, W.C. 2.

Telephone: Gerrard 1774.

Established 1878.

# COMBS

Combs are always in demand and the Chemist who displays them gets the Business. Below is a selection of good selling lines—try a few of them.

## Ladies' Dressing Combs

No.		Size	Per Doz.
171	White celluloid	7 × 1½ in.	6/6
103	Black	7 × 1½ in.	6/6
102	"	8 × 1½ in.	7/6
101	White	8 × 1½ in.	8/-
112	Dove colour, non-inflammable	8 × 1½ in.	8/-
123	Assorted	7 × 1½ in.	8/-
121	Black celluloid burr grailled	7½ × 1½ in.	13/6
116	Shell	7½ × 1½ in.	13/6
173	Black	8 × 1½ in.	14/6
150	White	8 × 1½ in.	24/-
106	"	8 × 1½ in.	27/-

## Ladies' Rake Combs

No.		Size	Per Doz.
167	White celluloid burr grailled	6½ × 1½ in.	12/6
117	"	7½ × 1½ in.	21/-
115	"	7½ × 1½ in.	22/-
174	"	8 × 1½ in.	27/-
189	Black	8 × 1½ in.	27/-

## Gents' Dressing Combs

148	Mottled colour, non-inflammable	5½ × 1 in.	8/-
140	White celluloid	7 × 1 in.	9/-
143	Black Vulcanite	7 × 1 in.	10/6

## Gents' Pocket Combs

163	Special line, assorted, in cases	...	4/6
175	Shell celluloid, in cases	5 × ¾ in.	9/-
160	Black, non-inflammable	5½ × ¾ in.	12/-

5% discount allowed for prompt cash off above prices.

We are the right House for **BRITISH-MADE GOODS**—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Rubber Sponges, Splints, Sponge Bags, Tooth Brushes, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.

ILLUSTRATED PRICE LIST POST FREE.

OUR GOODS ARE RIGHT.

MONEY BACK IF NOT SATISFIED.

**BURGE, WARREN & RIDGLEY, Ltd.**  
91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

*To Wholesale & Export Buyers only.*

**IT WILL PAY YOU**  
to visit our  
**NEW SHOWROOM**

We have the Right Goods  
at the Right Prices ! !

All French Manufacture. Delivery from London  
Stock, or Prompt.

**Chemists', Druggists' and  
Perfumers' Sundries.**

**A. E. DEPRETER,**  
24 HOLBORN, LONDON, E.C.1.

Phone: Holborn 3182. Grams: "Aedepelon, Smith, London."

**G. B. KENT & SONS, LTD.**

Are known the World over as  
the Largest Manufacturers of

**BEST  
BRITISH  
BRUSHES**

Please write for full Particulars to—

**75 Farringdon Road, E.C. 1.**

**BATHING CAPS**

OF  
**QUALITY  
AND  
DESIGN**

Bathing  
Costumes

Spon-  
Ba-

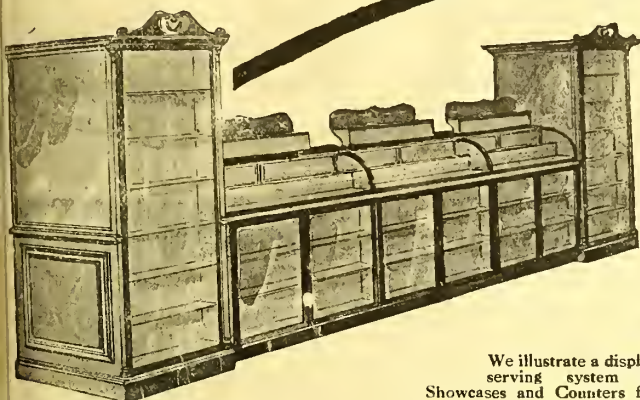
WATER-WINGS AND PADDLERS

**WILLIAMSON BROS.**

54 Lower Thames Street, London, E.C.3.  
Northern Showrooms: 49 Deansgate, Manchest

Telephone: AVENUE 5827.





We illustrate a display serving system of Showcases and Counters for the Up-to-Date Chemist.

*Drop a line to us about it*

## if it's SHOPFITTING

We are designers and manufacturers of complete serving and dispensing systems, showcases, fixtures and counters for the display of perfumery, etc. Send us a note of your requirements to-day.

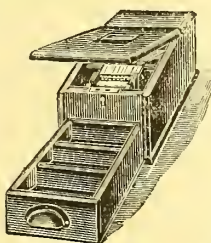
**PARNALL & SONS,**  
*Shopfitting Specialists,*  
27 SUMMER ROW, BIRMINGHAM.

**PARNALL**

### THE IMPROVED

## DUDLEY CASH TILL.

This Till, though so inexpensive in price, does the work just as efficiently as one costing double the price. It is made from well-seasoned wood, stained and polished to imitate richly grained mahogany. Size: 18x9x7½". It is fitted with lock and key. Receiving paper 3½" wide. Automatically rings warning bell every time cash drawer is opened. Price, packed in wood case, 77/6 each. Cash returned if you are not more than satisfied.



Dudley Till Coils, 5/- doz.

**DUDLEY & CO., 451 Holloway Road, N. 7.**

City Showrooms—25 Wood Street, Cheapside, E.C.2.

**W. DAVIS**

100 WOOD ST., E.C.2.  
Phone: City 8220.

**for OPEN WINDOW DISPLAYS**

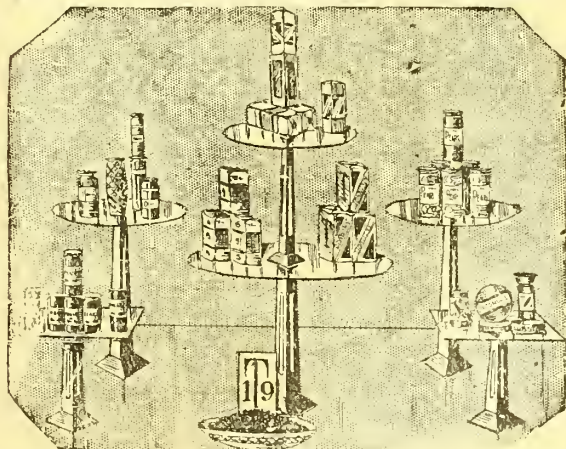


**W. DAVIS**

100 WOOD ST., E.C.2.  
Phone: City 8220.

**for OPEN WINDOW DISPLAYS**

WRITE FOR OUR LIST, SHOWING MANY NEW DESIGNS FOR OPEN WINDOW DISPLAYS.



**Set 118.**—Consisting of 2 18 in. OAK PEDESTALS, 3 12 in. ditto, and 1 24 in. ditto, with 1 24x18, 2 18x12, and 1 16x10 in. OVAL, and 2 16x10 in. OBLONG PLATE GLASS SHELVES and 1 WILLOW BOWL.  
**PRICE 96/- COMPLETE.**

My WINDOW PAPERS are 5/- per roll of 12 yards 21 in. wide. WRITE FOR SAMPLES.

11th. SEASON

## The "Milner" Straw Hat Cleaner

Sells well everywhere - 3d.

It is easily used and gives complete satisfaction.

Prices:

6 doz. 10/- net.  
12 ,, 19/- ,,

With Showcards - etc.  
Carriage Paid. 13 to doz. for cash with order.

Discount—

Orders of 20/-—2½%  
£5—5% £10—7½%

**MILNER'S CHEMICAL CO**  
Liverpool.



WE ARE THE ACTUAL MANUFACTURERS of the following lines—

# DRESSING COMBS MANICURE SETS HAIR ORNAMENTS BRUSH BACKS

(For Brush Manufacturers).

All our Articles are **GUARANTEED  
NON-INFLAMMABLE.**

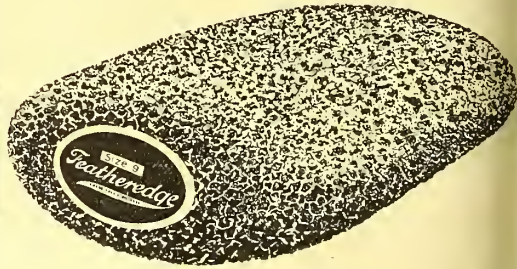
*Wholesale and Shipping only supplied.*

## MYERS, LUMOS & Co. MANUFACTURERS.

FACTORIES— SALES OFFICES—  
ISLINGTON, N. 35/6 Aldermanbury,  
FINSBURY PK., N. LONDON, E.C. 2.  
Phone : CITY 3526 (3 lines).

*Featheredge*  
TRADE MARK

## RUBBER SPONGES



Are durable and do not harden.  
When used with soap, they make  
a delightful lather.

Obtainable of all Wholesale  
Druggists' Sundries Houses

**MARKT & Co., LONDON, LTD.**

*American Merchants*

— SOLE IMPORTERS —

98-100 CLERKENWELL ROAD,  
LONDON, E.C. 1.

# Cellophane

**What  
Is It?**

## CELLOPHANE

is a transparent film of pure Cellulose, **absolutely**  
air, grease, and odour proof, **unaffected** by cold,  
heat, or moisture, and **sterilisable**.

An **ideal wrapping** for Drugs, Tablets, Bath  
Crystals, Perfumery, Provisions, Sweets, Surgical  
Dressings, Articles of Toilet, &c. &c.

Will keep your Goods, Boxes, Bottles, and  
delicate Labels **clean** on the Counter and in Shop  
Windows, allowing the Articles to be seen by  
**transparency**. Can be had colourless, coloured  
and embossed.

Also in the shape of **Discs** for Creams, Oint-  
ments, Boot Polish, &c.

*Prices, Samples and Particulars from*

**The CELLOPHANE COMPANY**  
(LECLERCQ & CHARÉLAT),  
15 Cullum Street, London, E.C. 3.



When  
you buy  
RUBBER  
SPONGES

Choose the quality  
product of well-  
known  
British Rubber  
Manufacturers.



TRADE MARK:  
"THE TURKEY."



# BELDAM

## BRITISH QUALITY

A LIFELONG experience of Rubber and Rubber Manufacture—years of careful and costly experiment—have enabled us to produce the perfect Rubber Sponge—the Beldam.

Beldam Rubber Sponges are remarkable for their purity—from which follow their Smoothness, their Softness and Cleanliness in use—also their capacity for absorption and their length of life.

They provide the perfect sponge for use in the toilet, the bath, the lavatory, the sick room or the surgery.

Medical men recommend them. They are unaffected by boiling water or by strong disinfectant.

They are made in five sizes. And the prices are strictly moderate.

Address :

Rubber Sponge Dept., The Beldam Tyre Co. (1920), Ltd., Brentford, Middlesex.





# PARAFFINUM LIQUIDUM.

B.P.

## *A CHEMIST'S NOTES:*

(1) *PERFECT MATERIAL*

(2) *LOW PRICES*

(3) *REFINED IN LONDON.*

*AND,*

*ABOVE ALL.*

*THE GREATLY*

(4) *DESIRED*

*RUSSIAN OIL*

"THIS IS THE TYPE OF PREPARATION USED BY  
SIR W. ARBUTHNOT LANE, AND HIS ASSOCIATES FOR  
INTERNAL ADMINISTRATION."

JOURNAL AMERICAN MEDICAL ASSOCIATION

REDDGRAVE BUTLER & CO.  
PARK LODGE, FOREST LANE

Tel. No. STRATFORD 799.

E. 15.



# THE CHEMIST AND DRUGGIST

## SUPPLEMENT

CANNON ST.  
LONDON, E.C.4.

JUNE 12, 1920

*Supplement is inserted in every copy of The Chemist & Druggist*

## THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

### ADDRESSED WRAPPERS STAMPED ONE PENNY

must be sent. Loose stamps will not be accepted.

**RIER CLOSING FOR PRESS.** Will advertisers please note that until further notice it will be necessary that Advertisements for the Supplement must be sent not later than the **FIRST POST THURSDAY MORNING.**

## CHEMISTS' TRANSFERS.

**MR. S. ORRIDGE & CO., 56 Ludgate Hill, E.C.**

Telephone No. 1 City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

**8. S.W.—**Old-established Retail and Dispensing Business; returns last year £1,636, at fair prices; commodious premises; residence sub-let; new lease will be granted; price offered.

**9. COUNTY.—**Old-established Family Retail Business, returns last year about £12,500, at fair prices; public residence; bathroom; vendor's own property; price to be arranged.

**10. Modern Pharmacy,** capital situate in busy shopping street; attractive, well-fitted shop and large stock; price £27,000; scope for development; price £24,800.

**11. Good-class Retail and Dispensing Business;** returns £9, at full prices; large house; private entrance; garden; held on lease; price £1,600, or valuation to be obtained.

**12. HEALTH RESORT.—**Old-established Retail and Dispensing Business; returns between £2,200 and £2,400, increasing; well fitted and fully stocked; new lease; price to be agreed.

**13. Old-established Business,** mostly own proprietaries; also Dental Practice; returns last year £11,373, increasing; estimated value of stock and fixtures £2,600; price to be agreed.

**14. Pick-up Pharmacy;** returns, present rate, £70 per annum; net profit 25%; rent £30; a lease on premises might be purchased; price for the premises to be agreed.

**8.—SOUTH COAST.—**High-class Retail and Dispensing Business; returns £5,000 per annum; stock and fixtures estimated at £4,000; further details on application.

**9.—WESTERN COUNTY.—**High-class Retail and Dispensing Business, no N.H.I.; established 1837, and in present hands 21 years; returns £3,600, at good prices; several good Proprietaries are included; well-fitted shop; vendor's own property; price, to include freehold, £5,500.

**10.—MIDLANDS.—**General Retail and Dispensing Business; returns, present rate, exceed £3,000 per annum; net profit 25%; double-fronted shop; rent £80; held on lease; price £2,500.

**11.—WARWICKSHIRE.—**Old-established Wholesale and Retail Business; returns exceed £8,000 per annum, at good profits; long lease; low rental; further details on application.

**12.—NORTH STAFFS.—**General Retail Business; returns exceed £2,500 per annum; books open to investigation; double-fronted shop; low rent; new lease can be obtained; price about £1,500.

**13.—GLOUCESTERSHIRE.—**Good-class Retail and Dispensing Business for disposal, through the death of the owner; returns £1,000 (present rate); formerly they were nearly £3,000; stock and fixtures estimated at £800; price required, £950.

**14.—SOUTH OF ENGLAND.—**For disposal, Wholesale Business, returning about £500 monthly; modern factory, 2 floors; electric light and gas; moderate rental; held on lease; further details on application.

## VALUATIONS FOR STOCKTAKING.

Desire to emphasise the necessity of a periodical Statement of Account, by which means alone Profit, the Balance Sheet, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Mr. S. Orridge & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**

# BERDOE & FISH

**VALUERS & TRANSFER AGENTS**

**35 Jewry Street, Fenchurch Street, E.C.3.**

Telephone: 1809 CENTRAL.

## BUSINESSES WANTED.

We have genuine cash buyers on our books prepared to take over immediately businesses in the following localities:

**LONDON** (good-class suburb).—Prices from £600 to £3,000.

**HOME COUNTIES** (large or small towns).—Prices from £500 to £2,500.

**SOUTH, S.E., or S.W. COAST.**—Prices, £800 to £3,000.

**EASTERN COUNTIES.**—Prices, £600 to £2,000.

**SOUTH MIDLANDS OR MIDLANDS.**—Prices, £500 to £3,000.

**SOUTH-WEST AND WESTERN COUNTIES.**—Prices, £800 to £2,500.

Intending vendors are cordially invited to correspond. Private register kept. Quick sales guaranteed.

ESTABLISHED 1870.

## AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**SOUTH AFRICA.**—Agencies wanted for Drugs and Allied Lines, Perfumery, etc.; salary or commission; sailing shortly. "Chemist" (94/28), Office of this Paper.

**A SCOTTISH** Representative of a well-known London house desires to take up an additional Agency, and is able to ensure efficient and successful handling; proprietors of quality goods, of interest to Chemists (summer lines wanted immediately), are invited to communicate with subscriber; only standard articles of established houses considered. "Efficiency" (94/8), Office of this Paper.

**ADVERTISER**, with office in Manchester, is open to accept a few good Agencies for Manchester and Liverpool; only first-class lines entertained. Apply 95/6, Office of this Paper.

**AGENTS** requiring a side-line to meet the increased expenses. write, giving ground covered, class of goods carried, and references; commission 15 per cent., a regular repeater in great demand; shows large profits to retailers; samples and show-matter light; one man's turnover last month nearly £200; you can do it too. Apply 90/3, Office of this Paper.

**COLONIAL REPRESENTATIVE.**—A gentleman with Colonial knowledge and experience will leave for Australia and New Zealand in the autumn; drugs, chemicals, sundries, scientific apparatus; part expenses and commission. Address "Viator" (90/1), Office of this Paper.

**PROPRIETARY** articles wanted by an old-established London firm of over 50 years' standing, doing a large mail order of wholesale business throughout the world wishes to take up additional sole agencies for Perfumery and Toilet articles; has unique experience in advertising and sales department, a well-equipped factory with efficient staff; has also a separate high-class retail establishment in leading London thoroughfare with elite clientele and 15 saleswomen. Apply, with full particulars, to "Expert" (125/2), Office of this Paper.

## SOUTHALLBROS. & BARCLAY

(Valuation and Transfer Dept.)

Special Terms for Probate and

Trading Accounts, Income Tax, etc.

For particulars apply—

**19, 20, 21 LOWER PRIORY, BIRMINGHAM**

## PARSON C. BAKER Ph C., M.

4 Cyprus Road, C.

## Wm. ROOKE ROBERTS, M.

174 Victoria Street, S.W.1. Tel.: Victoria 2

Valuers for Purchase, Sale, Probate, Income Tax, Balance

Recommended by The British Drug Houses, Ltd., Messrs. Ltd., Messrs. Barclay & Sons, Ltd., and many other leading sale Houses. Valuers to the Association of Manufacturers.

## BUSINESSES FOR DISPOSAL

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

**CUMBERLAND.**—Business in market town; returns increasing; profits 33%; rent and rates total £2,000; shop and large dwelling-house; price £800. Apply Office of this Paper.

**LONDON.**—Good medium-class Prescribing and General Business, situate at junction of four roads; prominent and commanding; very old-established; connection; convenient house; lease; illness sole cause; returns over £2,000; price £1,000; no offers. "Quintessence" Office of this Paper.

**LONDON, EAST.**—Cash Retail Business, at present qualified management; returns approx. £2,000; wards per annum; full prices obtained; nearest miles; excellent scope for N.H.I. Dispensing; open tion; price £700. "Ricini" (92/20), Office of this Paper.

**NORTH-EAST COAST.**—Death vacancy, for immediate a Mixed Retail Business in main street of thriving town; price, valuation of stock and fixtures; option of premises. Apply 91/25, Office of this Paper.

**SOUTH COAST.**—Splendidly fitted and well-stocked situated in busy main-road thoroughfare; no qualified management; net profit £400 per year; for improvement by qualified; good living accommodation; option long lease. Full particulars from 91/25, Office of this Paper.

**SOUTH OF ENGLAND.**—Sound progressive Business in good position; small town; returns increasing; low rent; long lease by arrangement; can be single-handed; all light congenial work; no heavy N.I.; nearly all Cash trade; no agents; buyers only. "Quintessence" Office of this Paper.

**DRUG and Herb Stores, Yorkshire,** on main road, old established neighbourhood; lock-up shop at present available shortly; rent £15; electric light; well fitted; good scope for qualified man; price for cash £2,000; good reason for disposal. Replies to "Herbarius" Office of this Paper.

**FINE opportunity to energetic man.—For Sale** health, Chemist's Sundries Manufacturing Devon; large Factory, Offices, and Laboratory; freehold, copyrights, machinery, stock, etc., only £8,000 offer; for immediate sale. Full particulars of R. & Co., Exeter.

**HIGH-CLASS Retail Dispensing and Photographic** Sale, together with the freehold premises, suburb of big provincial city; owner retiring; upwards of £5,000 at command will be furnished tenders on application, accompanied by banker's agents. 93/5, Office of this Paper.

**OLD-ESTABLISHED West-End Toilet Preparation** selling Business; Gold Medal (Paris); 20 years' preparations have been very extensively advertised and known; sold throughout United Kingdom, Colonies; excellent scope for development; very low rent. 14 Woodgrange Avenue, Ealing Common, W.

**RETURNS £2,600 increase up to now on last** ing Working-class Business in West End, profits; opening for Dentistry; house attached, well stocked; low rental; no opposition; price £17,000 or near offer. Reply 94/29, Office of this Paper.



**LEGAL.**

THE HIGH COURT OF JUSTICE IN IRELAND.  
CHANCERY DIVISION.  
MATTER OF HAMILTON LONG AND COMPANY.  
Limited and Reduced,  
and  
MATTER OF THE COMPANIES (CONSOLIDATION)  
ACT 1908.  
HEREBY GIVEN that a petition has been presented to the High Court of Justice in Ireland for confirming the above Company for reducing its capital from £18,000. A list of the persons admitted to have been the Company on the 25th day of May 1920 may be obtained from the Offices of the Company at 107 Grafton Street, Dublin, or the Office of the Company's Solicitors 41 and 42, Dublin, at any time during usual business hours on the charge of one shilling.  
who claims to have been on the last-mentioned day a creditor of the Company and who is not entered in the list and claims to be so entered must on or before the 1st day of June 1920 send in his name and address, and the particulars of his claim, and the name and registered place of his Solicitor (if any) to the undersigned at 41 and 42, Dublin, or in default thereof he will be precluded from objecting to the proposed reduction of capital.  
1st day of June 1920.  
HAYES & SONS,  
Solicitors for the said Company.  
Street,

**TENDERS.**

COUNTY BOROUGH OF SALFORD.  
LADYWELL SANATORIUM.

Invited by the 15th of June for the supply of all and Surgical Appliances, and Diphtheria Antitoxin for the ensuing six months. Tender forms from the Superintendent, Ladywell Sanatorium, Eccles New Road, Salford.

L. E. EVANS, Town Clerk.

**FOR SALE.**

6s. for 50 words or less; 8d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1s.

FIXTURES, FITTINGS, ETC.  
DUE TO EXPIRATION OF LEASE  
AND INABILITY TO RENEW.

LEINHARDT & SONS, LTD., 7 Queen Victoria Street, Leeds, offer for Sale by public auction, on 23rd inst., the entire costly and up-to-date Mahogany Fittings and Fixtures of this old-established business.  
The glass Counter Cases, Mahogany Dressing Cases, with glass cases in front; Dispensing Cases, with mirror-backed cases and mahogany plate-glass shelves; Mahogany-lined Drawers; Mahogany Wall Cases, with plate-glass doors, all air- and dust-tight; Self-Adding National Cash Register. Business transferred to branch, 61 York Street, Leeds.

Set of mahogany Drawers, 15 ft., in two sections, with drawers and knobs, lockers below; mahogany top with 23 drawers in same, also cupboard; mahogany counter front, 10½ ft.; mahogany window enamel panels and carboy rails. Apply M. S. Ball, 11, New Street, Leeds.

Plant, well, power, clean; consists of Mass Mixer, Piping, Putting Machine, and Coating Pan; 1 Chemical Amp and Weights to 100 grams. Apply 23/18M, per.

LE, size C, 20 gross to dispose of; offers for the whole or part of same. Write 91/17, Office.

2-oz. Amber Screw-capped Jars, fitted with caps; offers requested. Cuxson, Gerrard & Co.,

**BUSINESSES WANTED.**

6s. for 50 words or less; 8d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1s.

BIRMINGHAM OR NEAR.—Retail Business in good shopping centre required. Particulars in confidence to "Holoysd," 27 Green Lane, Small Heath, Birmingham.

DRUG Stores wanted; small country town preferred. Send particulars, in confidence, to 91/23, Office of this Paper.

WANTED to purchase, small Business on South Coast for cash. Write, in confidence, "C. H. P." (76/21), Office of this Paper.

WANTED, Country Business; returns about £1,500; good living accommodation; cash ready. Replies, in strictest confidence, to Lodder, 3 Southcote Road, Bournemouth.

**PARTNERSHIPS.**

EX-STAFF Officer, age 30, just demobilised, wishes to join sound firm, Chemical or Essential Oil merchants or manufacturers, with view to eventual partnership; six years' pre-war experience; fullest references both ways. Apply 87/18, Office of this Paper.

**HOLIDAY APARTMENTS.**

TWELVE minutes from Crowboro' Golf Links, within easy walking distance from Ashdown Forest (the most beautiful part of Sussex). Miss Willocks, Fernor Villa, Jarvis Brook, Sussex, has Board, Residence, or Apartments; terms on application. Recommended by A. A. Godkin, Chemist, Tunbridge Wells.

**ROOMS WANTED.**

TO CHEMISTS—DENTISTRY.—A practical and up-to-date man of over 20 years' West-End experience desires the use of a room for a few hours every Thursday; Ashford (Kent) or anywhere within 30 miles London; state terms. Langar, 15 Millard Road, Stoke Newington, London, N. 16.

**SITUATIONS OPEN.****RETAIL.**

6s. for 40 words or less; 8d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1s.

BARRY DOCK (GLAM.).—Assistant, unqualified, required early in July. Apply, stating age, experience, and salary required, enclose photo if possible, W. T. Hicks & Co., 28 Duke Street, Cardiff.

BIRMINGHAM.—Branch Manager, young and energetic, wanted for quick Retail with N.H.I. business in suburban district. Apply, stating salary and full particulars, 90/12, Office of this Paper.

BRIGHTON.—Assistant for Dispensing and Light Retail; good experience essential. Apply, stating full particulars and salary required (outdoors), to J. Miller, 4 Victoria Road, Brighton.

BRIGHTON.—Wanted, immediately, Assistant (male), qualified, outdoors or indoors, for Light Retail and Dispensing business; please state age, experience, and give references, with salary required. F. Adams, 56 Marine Parade, Brighton.

BRISTOL.—Wanted, an Assistant; qualified; cash Retail and Dispensing, mainly N.H.I.; middle-aged, preferred. State salary required and particulars to "Chemist," c/o Mr. Lewis, 45 Greenbank Road, Eastville, Bristol.

CHELTHAM.—Unqualified gentleman, about 25, with good Photographic experience, Widow-dresser, required at once; particulars and photo (if possible); mention salary required. Miller, Chemist, High Street, Cheltenham.

CROMER.—Assistant wanted for the season; young and experienced. Particulars of D. Dulle, Chemist.

CROMER.—Junior Assistant required (immediately) for about four months; good practical knowledge of Photography, including Gaslight Printing, essential. Please give particulars of experience, and state salary required (outdoors), Hoare, Chemist, Cromer.

**GRANGETHORPE HOSPITAL (MINISTRY OF PENSIONS), RUSHOLME, MANCHESTER.**—Assistant Dispenser required. Applicant must have the diploma of the Apothecaries' Hall, or an Army Dispenser's qualification, and ought to be familiar with Army documents. Apply Medical Superintendent.

**HYDE, CHES.**—Wanted, qualified Manager for small Branch; take up premises; preferably one who has had similar post; state full particulars, with references, and salary required. H. Bellringer, 20 Great Clowes Street, Lower Broughton, Manchester.

**KENT.**—Wanted, experienced Junior Assistant (male); Light Retail and Dispensing; easy hours. Send full particulars and salary required (outdoors) to Ostler & Green, Chemists, Strood, Kent.

**LIVERPOOL.**—Branch Manager wanted, qualified, for Retail business. Apply, giving full particulars as to age, experience, salary (outdoors), etc., to 91/36, Office of this Paper.

**LONDON, N.**—Junior Assistant; outdoor. Apply by letter, stating salary required and usual particulars, Tabor & Cresswell, 138 High Street, Kingsland, N.E.

**LONDON, W.**—Wanted, qualified Manager (outdoors) for Counter, Dispensing, and Stock, accustomed to Store trade, with a knowledge of Photography; state age, experience, and salary required. Apply 92/26, Office of this Paper.

**MANCHESTER.**—Experienced qualified Assistant for progressive Pharmacy; expert Salesman; knowledge of Photography and "Ucal" Goods an advantage. Apply by letter, stating age, reference, and salary required, to Shand & Orr, 301 Regent Road, Salford.

**MANCHESTER.**—Wanted, Junior Assistant, male or female; also unqualified Assistant, capable of taking charge; hours 9 to 8; usual half-day holiday; no Sunday work. Reply, giving particulars of experience, etc., and salary required, to 94/16, Office of this Paper.

**MANCHESTER-SALFORD.**—Wanted, qualified man to manage small branch, working and middle-class district; small N.H.I. and cash Retail; hours 8.45 to 8; half-day Wednesday. Apply, giving full particulars as to age, experience, salary expected, to 92/29, Office of this Paper.

**MARGATE.**—Competent, qualified Assistant, about 28, for good Retail and Dispensing business. Particulars of last two engagements. State height, and salary required (outdoors) for the season, when disengaged, to W. M. Rosser, Baily & Co., 2 Ethelbert Terrace, Margate.

**QUEEN MARY'S HOSPITAL FOR THE EAST END, STRATFORD, LONDON, E. 15.**

**DISPENSER** wanted. Applicants must have the M.P.S. qualification and have had previous Hospital experience. Apply, stating salary expected, and enclose copies of recent testimonials, to A. W. SCRIVENER.

**RADCLIFFE, Manchester.**—Wanted, qualified Manager for Branch; single. Apply, with usual particulars, to J. T. Smith & Son, Chemists.

**ROYAL Free Hospital, Gray's Inn Road, W.C.**—Dispenser Locum required for six weeks from June 21. Apply to Secretary, stating experience and salary required.

**SOUTHAMPTON.**—A smart Junior required at once; one with knowledge of Photography preferred; must have had good Counter experience. Reply, with full particulars and salary required, to W. Bates & Co., Ltd., 50 Oxford Street, Southampton.

**SOUTHPORT.**—Wanted, smart, gentlemanly Assistant, accustomed to good-class business; state wages required. Apply 92/2, Office of this Paper.

**TEIGNMOUTH.**—A Junior Assistant required for the season; well up in Dispensing and Photography. Give full particulars and enclose photo in first letter to the Manager, 1 Orchard Gardens, Teignmouth, Devon

**TUNBRIDGE WELLS.**—Junior Assistant (experienced) for good-class Dispensing and Photographic business; outdoors; state age and salary required. Godkin, Chemist, Tunbridge Wells.

**WEST-END.**—Qualified Assistant required for the month of August; accustomed to high-class Dispensing and Counter work. Apply, with full particulars, to "Deva" (89/38), Office of this Paper.

**ASSISTANT; unqualified; outdoors; Agricultural, Photographic, and Dispensing experience; must be reliable and well recommended.** Write, full particulars, age, experience, references, and salary required, Gwillim, Chemist, Brecon.

**ASSISTANT** required for about three months for a good-class business. Kindly send full particulars and salary required (outdoors) to A. B. Higgs, Pharmacist, Horley, Surrey.

**CHARLES MIDGLEY, LTD., 4 Exchange Street, Square, Manchester,** require a male Assistant for work; experienced in best Pharmacy; age, experience, required in confidence.

**JUNIOR Assistant** required for seaside business, July and September. Apply, giving full particulars as to height, references, photo (if convenient), and salary to Holman, Ham & Co., Ltd., Market Street, Exeter.

**JUNIOR Assistant** (experienced), unqualified; I. N.H.I., and Quick Cash Business; good Salesman; hours 8.30 to 8, Saturday 9; no Sunday or Bank Holiday state age and salary required, send last two references at once. Wood, The Pharmacy, Audley, N. Staffs.

**JUNIOR Assistant** (outdoors); hours 9-7, Wednesday Saturdays 8 p.m.; with good Dispensing experience, salary, etc., Arnold Roberts & Co., High Street, Acton.

**LIVE Salesman,** good-class experience, qualified, taking charge; also unqualified Junior. Please apply with full particulars, to Coimau's Pharmacy, 61 High Street, London, W.C. 1.

**LOCUM** (qualified), July 5th to 19th, indoors or outdoors. Light Retail and Dispensing. Blackmore, Weymouth.

**LOCUM, S.W. district,** for two weeks beginning of August; smart, unqualified man. Usual particulars, references, salary required to 91/37, Office of this Paper.

**LOCUM** wanted, from July 5th, for 6 weeks, middle-class district; for three branches. Apply, with particulars of experience, references, and terms, to Lockwood, Chemist, Manchester.

**MANAGER** required, on salary and good commission; work; age 27/35; capable to control staff; writing and own advertising. State age, experience, salary, etc., Lindsay's, 111 Nethergate, Dundee.

**PARKE'S DRUG STORES, LTD.,** require a qualified Assistant immediately; progressive man essential; applicants must have knowledge of Photography and good London experience; knowledge of Photography an advantage. Apply by letter only, stating age, height, experience, to 65 Harwood Street, Kentish Town, London.

**PARKE'S DRUG STORES, LTD.,** have a vacancy for a qualified Assistant; applicants must be energetic and have a knowledge of Photography. Apply by letter, giving age, height, and experience, 65 Harwood Street, Kentish Town, London, N.W. 1.

**QUALIFIED Manager** wanted for South Coast; reliable, with modern methods; good prospects; salary required and full particulars in first instance (91/19), Office of this Paper.

**QUALIFIED Assistant,** alert and with up-to-date knowledge of Photography; must have excellent references. Apply, stating age, height, and experience, to "C." (91/20), Office of this Paper.

**QUALIFIED Assistant** wanted (outdoors). Please apply, with experience, references, salary required, and engaged, in first letter, or apply personally, to Vincent, 460 Holloway Road, London, N. 7.

**QUALIFIED Assistant** (at once) for two or three months longer. Write, giving full particulars as to wages, to call, Milners, Pharmacists, 96 Askew Road, Shepherd's Bush, W.

**QUALIFIED Assistant,** young, smart, wanted for work in working-class district, Midlands; state wages, age, experience, etc. Apply 87/19, Office of this Paper.

**QUALIFIED Manager;** young, energetic; good knowledge of Photography; middle-class working-class district; N.H.I.; hours 9 a.m. to 8 p.m., Tuesday 1 p.m. to 5 p.m. Apply, giving full particulars, to J. E. Walker, The Netherfield Pharmacy, N. Staffs.

**QUALIFIED Manager** required for Branch; no Sunday work. Full particulars and salary required to S. J. Attercliffe Road, Sheffield.

**QUALIFIED Manager** wanted, also good, unqualified Assistant. Apply, in writing, to the Secretary, Shadforth Service, Ltd., 49 King William Street, E.C. 4.

**QUALIFIED, lady or gentleman,** to take charge of Dispensing and Retail N.H.I.; assistant kept; elder not objected to; eight miles from Manchester. State age, experience, and salary required, to 93/25, Office of this Paper.

**SAVORY & MOORE, LTD., 29 Chapel Street, S.W.** require a lady Bookkeeper; previous knowledge of Chemical business desirable. Apply by letter, stating salary and address.



**FIELD Junior Assistant** wanted for good-class Dispensing and Retail business; photographic knowledge essential. Give full particulars of age, experience, salary, etc., and enclose photo, if possible, to J. F. Collin, 25 The Walk, Norwich.

**FIELD Assistant** wanted (young) for Quick Cash Retail H.I. Dispensing. Apply, with full particulars and photo (outdoors) to J. Patterson, 52 Ilford Lane, Ilford.

**FIELD Assistant**, preferably single, for good-class Dispensing, and Photo Business; fairly quick, and good general knowledge of business, and possess references; salary £4 or more, according to ability. H. Hall, The Broadway, Crouch End, London, W. 8.

**FIELD Junior as Dispenser**; must have good references; full particulars in first letter. Apply Oakley, Methwick.

**Capable Assistant** required (at once); hours 1 p.m. to 5 p.m., with special relief duties; also qualified Dispensing references required. Apply the Manager, Heppell's Buildings, Strand, W.C.

### WHOLESALE.

**Editor may, if preferred, have replies addressed to this column forwarded on payment of an additional charge of 1/4.**

**MAN** required by a firm of Manufacturing Chemists, W.-End of London; must be a strict disciplinarian and experienced in the sealing, labelling, and wrapping of tins, packet goods, etc. Write fully, giving previous age, and salary required, to Box 216, c/o Mitchell's Agency, Snow Hill, E.C. 1.

**Established house of Perfumers and Soapmakers** are seeking Three Junior Travellers as follows: (1) For Cumberland, Northumberland, and Durham; resident in London. (2) For Warwick, Worcester, Gloucester, Stafford, and Birmingham. (3) For Liverpool, Cheshire, and Lancashire. Live Salesman, with connection among Chemists, Stores, etc. Salary, commission, and full particulars to Sales Manager (95/17), Office of this Paper.

**Persons** require the services of Travellers on sound business basis to push sale of commodity now being advertised; ground open, Eastern Counties, South Midlands; good Salesmen will receive every consideration to "W. R.," 10 Railway Street, Chatham.

**London Merchants** have vacancy for Manager of Department; good opening for one with experience in handling Chemicals, and who can introduce fresh ideas developing existing connections on a profitable basis. Write, full particulars, experience, age, and salary required, to "Z. Z.," 251, care Deacons, Leadenhall Street, E.C. 3.

**Market Clerk** wanted by Mining Lane Merchants; must thoroughly understand Chemicals of all kinds and able to introduce business; splendid opportunity; age, experience, and desired remuneration. "Z. A.," 252 Leadenhall Street, E.C. 3.

**Watch Clerk, Assistant, Drug Buyer, Wet-Counter Clerk**, for London house. Give full experience and references. "Wholesale" (P.C.B. 76/31), Office of this Paper.

**Gas and Printing, Gaslight, trade work**; experienced. Boutalls, 150 Southampton Row, W.C. 1.

**Invoice Clerk** wanted by East-End firm. Apply Office of this Paper.

**(Wholesale).—Counter Hand**, used to Wet or Dry, once. Apply at Apothecaries' Hall, Water Lane, Street, E.C. 4.

**Sundries Trade.—South Coast**; experienced Clerk please state age, experience, wages desired, and references. Apply 94/5, Office of this Paper.

**DE CL.** (male) required. Write, giving experience and salary required, to Hopkin & Williams, Ltd., 16/17 Cross Street, London, E.C. 1.

**Assistant**, with knowledge of Mixtures, general Dispensing Pills and Tablets, preferred. Blackwell, 1, d., Birmingham.

**LONDON and provincial Representatives**, with established connection, are offered immediate remuneration for introducing an attractive series of twelve high-quality Toilet Lines. Write fully, stating exact territory worked, to P. R. J. (P.C.B. 76/34), Office of this Paper.

**MALE Assistant** for invoice and statistical department of London Manufacturing Chemists; age about 20; progressive post; only those accurate at figures, and with good knowledge of the trade need apply, stating full particulars and salary required. Apply 14/15H, Office of this Paper.

**MANAGER'S Assistant** for the office of a firm of Wholesale Druggists in Scotland; must have a first-class knowledge of the trade and accustomed to control office staff; preference given to a man who has had experience in Surgical Dressings trade. Apply, with references, stating experience and salary required, to 25/16M, Office of this Paper.

**REPRESENTATIVE** wanted to take charge of a stall at the B.M.A. Exhibition, Cambridge, from June 29th to July 2nd inclusive. Write, stating terms, to 5/14C, Office of this Paper.

**REPRESENTATIVES** required, on a commission basis, for London and provinces, in connection with Chemists and Hairdressers, for high-class French Perfumery; largely advertised. Write, giving particulars, 94/6, Office of this Paper.

**REQUIRED**, a young man to superintend Wholesale Chemical Department; one thoroughly used to Photographic and trade Chemicals; no application will be considered unless age, salary required, and previous experience is clearly stated. Apply 29/8P, Office of this Paper.

**SALESMAN.—Required**, by old-established London firm of Wholesale Chemical Merchants, first-class experienced Salesman, fully acquainted with fine Chemicals. Letters "Chemicals," c/o Pool's Advertising Service, 180 Fleet Street, E.C. 4.

**SHIPPING and Wholesale.—Wanted**, Junior Assistant, unqualified, for Drug Department; one with previous knowledge preferred. Reply, with full particulars and salary required, to W. Bates & Co., Ltd., 50 Oxford Street, Southampton.

**SHORTHAND Typist** with knowledge of Drug names required; one with experience of bookkeeping preferred. Age, experience, and salary required, to "A. L. D." (76/8), Office of this Paper.

**SHORTHAND-TYPIST** required, with some experience; either sex. Apply, giving particulars, in confidence, and state salary required, Hatrick, 72 St. John Street, E.C. 1.

**TABLET Maker** wanted by a firm of Manufacturing Chemists in Scotland; must be experienced in granulating and compressing, and in the use of rotary tablet machines. Apply 90/19, Office of this Paper.

**TOILET PREPARATIONS.—Progressive firm** with rapidly increasing business require practical man to take control of their manufacturing department; must have sound knowledge of Shampoo Lotions, Hairwashes, Creams, Perfumed Oils, Pomades, etc.; systematic and reliable; permanency and good prospects for the right man; state full experience and salary required; good references essential. Reply to "W. F. W.," Grafton Hotel, Tottenham Court Road, W.

**TRAVELLER** required to represent a Wholesale house handling Surgical Dressings, Plasters, Sundries, and Toilet requisites in Norfolk, Suffolk, Essex, Cambridge, Bedfordshire, Oxfordshire, Buckinghamshire; preference will be given to applicants who are already acquainted with the area. Apply 5/15C, Office of this Paper.

**TRAVELLER** required for Yorkshire and Northern Counties; must have established connection with Chemists and able to command business in Packed Goods, Compressed Tablets, etc. Apply by letter, stating qualifications, to White Band Manufacturing Co., Ltd., Croydon.

**TRAVELLERS** wanted on commission basis to sell 11d. Lemonade Powders; constant repeats after first sale; sole agency given; applicants must have established connection of reliable customers. Write P.C.B. 76/17, Office of this Paper.

**WANTED (immediately)**, Assistant Manager for Fine and Heavy Chemicals Department of large Mining Lane firm; must be thoroughly experienced in home markets and able to work on own initiative; salary about £300 per annum. Apply by letter to 33/14R, Office of this Paper.

**WHOLESALE.—Qualified Chemist** required for Dry Floor, used to controlling small staff. Apply, stating previous experience, age, and salary required, to "A. T. H." (35/158), Office of this Paper.

**WORKS Chemist** wanted; well experienced in Waxes, Oils, Greases, etc., and in manufacture of Polishes, Disinfectants, Sheep Dips, and Agricultural and Veterinary preparations; to test, analyse, etc., and assist generally in the whole practical work of manufacturing. State fully previous experience, age, references, and salary required, to 123/8, Office of this Paper.

## SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

**AUSTRALIAN COMMONWEALTH.**—Chemist, just disposed business, sailing Australia June 19, desires immediate engagement as Traveller; Drug House, Sundries, Optical House, or Patents. "Brisbane, c/o 105 Sandmere Road, Clapham.

**SHANGHAI MUNICIPAL COUNCIL—HEALTH DEPARTMENT.**

**PHARMACIST and ANALYST** required. Salary Taels 350 per mensem. At the present rate of exchange Taels 3 equals £1. Exchange is, however, liable to fluctuation, and the pre-War rate was Taels 8 equals £1.

Candidates should be between 25 and 35 years of age, and possess the Major qualification of the Pharmaceutical Society. They should be experts in the analysis of Foods, Drugs, Poisons as required in a Public Health Laboratory.

There is a liberal superannuation fund; three years' renewable agreement; first-class passage provided and half-pay allowed during voyage.

Further particulars may be obtained from the undersigned, to whom all applications should be sent.

MESSRS. JOHN POOK & CO.,

Agents for

The Municipal Council of Shanghai,  
68 Fenchurch Street,  
London, E.C. 3.

London, June 1920.

**STRAITS SETTLEMENTS.**—Required, immediately, for Straits Settlements, qualified Chemist; salary £40 per month first year; second-class passage paid. Apply, with full particulars, to 23/17M, Office of this Paper.

**STRAITS SETTLEMENTS.**—Young Assistant, unmarried, with Chemist's qualification, a good knowledge of Optics desirable; four years' agreement; passage paid out and home; salary first year £490; second and third years £525, fourth year £560. Apply 140/34, Office of this Paper.

**A**N experienced Assistant, with knowledge of Photography and good references. Apply Thwaites, Chemist, Beaufort West, South Africa.

## SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**A**—LOCUM, Pharmacist (30), just disposed own business, now booking Locum, abstainer; experienced all branches, Photography, etc. Chemist, 11 Eardley Crescent, Earl's Court, S.W. 5.

**A** PHARMACIST, at liberty July, desires post, West Riding (Leeds or Bradford preferred); all-round experience; interview. "C," 32 Duckworth Terrace, Bradford.

**A** PHARMACIST disengaged for Locum work. Duckett, 4 St. Andrew's Square, Surbiton.

**A** QUALIFIED Chemist desires any position of trust, Manager or Locum, early in July; held present position for 8½ years. 13 Coniger Road, Parson's Green, S.W. 6.

**A** QUALIFIED Chemist desires immediate employment; Manager, Senior, permanency, Locum; town, country, seaside experience; up-to-date Working and Counter Photography; wide experience opening new businesses; satisfaction guaranteed; every detail. Apply 92/34, Office of this Paper.

**A** QUALIFIED Chemist, as Manager or Locum; good references: experienced and active; London or country. Apply 84/32, Office of this Paper

**A** SENIOR Assistant requires Locum work or permanency; disengaged; Dispensing, Photographic, and Optics; good references. F. S. Gorell, 57 Western Road, Brighton.

**A**CTIVE, elderly, pleasant Pharmacist seeks light duties; salary moderate; any capacity. "Zepho," 1000, Easter Road, Preston.

**A**S Locum; disengaged Monday; qualified; thoroughly experienced all branches. Burrell, c/o Hindle, Chemist, 21, Road, Hull.

**A**S Manager or Locum; thoroughly competent, elderly Dispensing, Retail, and Agriculture. State full particulars to "G. Y." (93/37), Office of this Paper.

**A**SSISTANT; unqualified; age 27; 10 years' experience; class Dispensing, Retail, Agricultural, and Photographic, energetic, and reliable; disengaged; permanency "Statim," 79 Prospect Road, Redditch, Worcestershire.

**A**SSISTANT, unqualified, 15 years' experience, prior Store trade, Photography, and General Counter work; part-time engagement in West London. A. E. Leng, 2, Street, Acton, W. 3.

**A**SSISTANT, unqualified, 27, desires Locum engagement and August; thoroughly up-to-date; take complete or assist. Apply "Aspirin," 5 Chelsham Road, Clapham.

**A**SSISTANT, unqualified (27); married; 4 years' 3½ years' high-class Retail experience; London, district. Alford, 167 Nelson Road, Hornsey, N.

**A**SSISTANT, unqualified, disengaged on 21st; Locum permanency. "Radix," 72 Tremadoc Road, Clapham.

**A**SSISTANT, unqualified (25), demobilised, seeks post; Midlands preferred; good experience Counter dispensing. Apply 93/26, Office of this Paper.

**A**SSISTANT; 26; first-class Dispensing experience; required £4. State particulars of hours, etc., to "cial" (93/29), Office of this Paper.

**A**T liberty June 22nd; reasonable terms; well recommended. "Locum," c/o Mr. Downing, Chemist, Hants.

**B**IRMINGHAM.—Part, or full-time position required; 10 years' experience; first-class experience. Full particulars to 25 Stafford Parade, Halifax.

**B**RANCH Manageship.—Reliable; abstainer; married; experience, town and seaside. Other particulars of position to "Abstainer" (93/28), Office of this Paper.

**B**RIGHTON AND HOVE DISTRICT.—Chemist, with experience, is open for Locum work. Write "M. Messrs. Cripps & Son, Manufacturing Chemists, D'Avon Hove.

**C**APABLE woman seeks re-engagement; highest general routine; assist Counter. Tasker, 14 Vine Race, Long Lane, Finchley, N. 2.

**C**LERICAL.—Evening work of any kind; posting up accounts; terms moderate. "F. G." (118/31), Office of this Paper.

**C**OMPETENT Assistant; unqualified; 27; state terms 93 King's Road, Harrogate.

**D**ISENGAGED, unqualified lady Assistant; seven years' class Dispensing and Retail experience; country, Somerset or Gloucestershire preferred. Apply 91/35, Office of this Paper.

**D**ISENGAGED.—Experienced Locum; thoroughly reliable; well recommended; terms moderate; town try. "Rhei," 239 Camberwell New Road, S.E. 5.

**D**ISENGAGED; qualified; Manager, permanent West End preferred; 25 years' London "Chemist," 108b Elgin Avenue, W. 9.

**D**ISPENSER, lady, Hall qualification, desires post; experience Military Hospital; would take Locum. Miss Cornish, 99 Trinity Road, Tooting, S.W. 17.

**D**ISPENSER (lady) desires post, or Locum; 7 years' experience Doctor, Hospital, Chemist. "H.," 11 Presanfield, Liverpool.

**D**ISPENSER, lady (Hall) requires post, temporary; seven years' experience Counter handling; references; salary £3 10s. "Statim," 5 Brading Avenue, sea.



ENCED West End and Provincial Assistant requires  
th in good-class Pharmacy or Drug Stores; age 39;  
Austin, 72 Ditchling Road, Brighton.

ter 6 p.m. and Sundays; 49; Major; experienced Dis-  
g, Counter; references. Anthony, 58 Sumatra Road,  
astead, N.W. 6.

sires post; Hall qualification; 10 years' experience  
ner and Dispensing; Chemist or Doctor; disengaged  
A. D. G., 81 Olive Road, Cricklewood, N.W. 2.

Dispenser (Hall) desires post; excellent testimonials;  
tal experience; Locum or permanency. "Dispenser,"  
Hill, N.W. 8.

Dispenser (Hall), 3 years' experience, desires post. "S.,"  
tead, Milton Road, Croydon.

Dispenser (Hall), two years' experience, requires post  
Doctor, Hospital, or Institution; would take Locum  
son, 10 York Gardens, Clifton, Bristol.

unqualified, desires situation; thoroughly experienced  
lass Pharmacy and Doctors' Dispensing; knowledge  
phy; please state salary. Apply 93/38, Office of this

ing, requires post Chemist; 3 years' all-round experi-  
good Dispenser; London district. Apply 94/10, Office  
r.

Disengaged for August and September; elderly, very  
Apply 91/22, Office of this Paper.

Major qualification, now open for engagements, having  
d of business. "C. H.," 23 Canning Street, Liver-

23 10s.; unqualified; first-class Dispensing and  
experience; excellent references; age 26; free  
Apply 83/19, Office of this Paper

Disengaged June 8th; wide experience; competent and  
qualified Dispenser. "Statim," 82 Dahomey Road,  
W. 16.

Pharmacist desires Hospital Locum in seaside resort  
weeks, August or September. Apply B. E. K., 26  
ad, Mossley Hill, Liverpool.

permanent; disengaged 16th inst.; Prescriber, Dis-  
Extractor, Window-dresser. "Statim," Westcliff  
Westcliff-on-Sea.

Branch, Senior; record experience Specialities, Dis-  
Prescribing, Salesmanship; permanency desired;  
y; references. "Worcestershire," 5 Port Street,

eds and district; booking forward; Retail and Dis-  
excellent references. "Chemist," Armley Phar-  
mley Road, Leeds.

ll recommended; wide experience; highest references;  
London preferred. "Gelsen" (93/14), Office of

Chemist, managing West-End Pharmacy, desires posi-  
seaside during holiday, July 4th-10th, preferably  
or sleeping accommodation for self, wife, and child  
s); thoroughly experienced in Retail, Dispensing,  
phy. Apply 94/25, Office of this Paper.

TENS, middle-aged, all-round experience, disengaged  
ne 21 to July 31. "Locum-Tenens," 232 Corpora-  
wport, Mon.

Senior Assistant (married) seeks berth; 12 years'  
reference from West-End firm; well up in Dis-  
er, and the general requirements of an up-to-date  
en to act as Locum. J. E. Franklin, 33 Harrington

MARRIED, age 30, requires Managership;  
London or suburbs; good references; London ex-  
y and commission. P.C.B. 76/36, Office of this

MANAGER of branch, qualified, over five years last position,  
now disengaged; temporary work not objected to. W.  
Howell, Ph.C., 5 Woodhouse Grove, Manor Park, E. 12.

MANAGER or Assistant; unqualified; good references; Tyno  
or Wearside; smart Counterman; Dispensing and Photo-  
graphic; 4 years' West-End experience; 6 years in provinces.  
Apply "Ambitious" (92/10), Office of this Paper.

PHARMACEUTICAL Chemist requires position as Manager or  
Senior in Exeter or district; age 36; thoroughly experi-  
enced; good salary and commission. Apply 91/34, Office of this  
Paper.

PHARMACEUTICAL Chemist, maturo and varied experience,  
seeks position responsibility and control; Retail or Whole-  
sale. P.C.B. 76/37, Office of this Paper.

PHARMACIST (married), experienced all branches, 14 years  
successful Manager, desires engagement in similar or other  
responsible position; disengaged; interview preferred; salary,  
offers. Steel, 4 Radnor Park Crescent, Folkestone.

QUALIFIED lady Dispenser desires post; 14 years' excellent  
Institution experience; disengaged shortly. Apply Dispenser,  
Lord Derby War Hospital, Warrington.

QUALIFIED (38), married, seeks position; good all-round ex-  
perience; at liberty now; honest, reliable. "Chemist," 31  
Sidney Road, Southport.

QUALIFIED (Minor), woman, 8½ years' all-round experience,  
seeks temporary or permanent post. Miss Powell, 9 March-  
mont Street, W.C. 2.

QUALIFIED; London and provincial experience; tall, energetic;  
first-class Salesman; free for immediate engagement;  
Manager or Senior Assistancy; permanency or Locum. P.C.B.  
77/4, Office of this Paper.

RELIEF, qualified; not professional Locum; bookings to Octo-  
ber 1st. P.C.B. 76/370, Office of this Paper.

STOCKTAKING undertaken by the thoroughly experienced, who  
specialise only in this one very important department;  
everything taken in detail; distance no object; send for our  
reasonable terms. Hyndman & Mersey, 12 Edgeley Road, Clap-  
ham, S.W. 4.

STUDENT Associate, ex-officer, seeks position; four years' ex-  
perience; London preferred. Roberts, 42 Queen Street,  
Chester.

UNQUALIFIED, 30, seeks permanency; town or country; 12  
years General, Retail, and Dispensing. "B.," 15 Bath  
Street, Brighton.

UNQUALIFIED (30) desires change; experienced busy Store  
trade. Please state salary, Field, 138 Old Kent Road, S.E.

UNQUALIFIED (27) requires permanency; good experience  
Counter and Dispensing. Apply "Statim," 52 Hawstead  
Road, Catford, S.E. 6.

UNQUALIFIED Manager; town or country; 4 years present  
situation; business increased 3 times; experienced all  
branches; aged 50; abstainer; married; moderate salary. Carter,  
58 Jew's Hill Road, Huddersfield.

## WHOLESALE.

The Advertiser may, if preferred, have replies addressed to this  
Office, and forwarded on payment of an additional charge of 1/4.

A WELL-KNOWN Representative in the Midlands, South-West,  
and part South Wales is open to carry another line, on  
part expenses and commission basis; no Creams or Perfumery.  
J. H., "Pittsburgh," Wormholt Road, W. 12.

ADVERTISER would represent established firm (only) for  
Leeds and 20 miles' radius; Chemical, Optical, Photographic,  
Wines, etc. Apply 94/17, Office of this Paper.

FOREMAN.—Capable Working Foreman requires situation; 30  
years' experience; knowledge of medical language and signs.  
Patents, Photographic Goods, Bottles, Surgical Appliances; could  
keep stock or act as Salesman. Watford, 59 Downham Road,  
Hackney, London.

REPRESENTATIVE, experienced in calling upon all branches  
of the trade, requires position with good house; young, tall,  
and smart appearance. Apply 92/25, Office of this Paper.

# To Manufacturers of Toilet Preparation

Practically a new source of business in Face Powders, Creams, Shampoos, Perfumes, Soap etc., is ripe for development. Advertiser has successfully experimented, and an up-to-date firm willing to adopt his scheme will undoubtedly have an additional large and increasing turnover, which need not interfere with existing trade.

*Offers and correspondence invited, with or without services.*

Box 84-12 "Modern" c/o The "Chemist & Druggist," 42 Cannon Street, E.C.

**R**EPRESENTATIVE, with selling ability and connection amongst Chemists, Stores, etc., requires good-class house, N.W. England and Scotland; commission basis. Apply "E. J." (90/7), Office of this Paper.

**R**EPRESENTATIVE, fully experienced, desires change; requests Proprietaries, Sundries, or Drugs; commission or otherwise; sound connection; Yorks and Lincs. Apply 91/32, Office of this Paper.

**S**ITUATION required, Clerk-Storekeeper, Checker; Dispensing (Hall); thorough knowledge of Drugs; good knowledge French. Apply 91/40, Office of this Paper.

**T**RAVELLER, London experience, desires engagement with good house; salary and commission; interview any time. Apply "Immediate" (93/21), Office of this Paper.

**Y**OUNG lady, 19, with 3½ years' experience in Chemists', desires re-engagement; disengaged. Apply 91/15, Office of this Paper.

**Y**OUNG lady desires post with Chemist, Doctor, or at an Institution to gain good practical experience; working to complete Hall qualification. Apply 91/18, Office of this Paper.

## SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/4.

**G**ENTLEMANLY young man, age 23, seeks situation abroad or Continent with Wholesale firm; three years' experience; ex-soldier; capable and energetic. Apply 92/1, Office of this Paper.

## MISCELLANEOUS.

10s. for 60 words: 5s. for every additional 40 words or less.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/4.

**M**CADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.—Shares for Sale (free of commission, subject): 500 C. Ash 5½ Pf., 15s. 9d.; 300 British Drestuffs Prof. Ord. 15s. 3d. xd., 500 Def. 6s. 7½d., 300 x 7% Pf., 15s. 6d.; 250 British Cellulose & Chemical Ord. 18s. 3d., 250 Ptg. 7½ Pf., 17s. 7½d.; 20 Evans Lescher 5% Pf., 15s. 3d.; 500 Farrow's Bank, 10s. paid, 8s. 10½d.; 200 J. C. Field 5½ Pf., 15s. 9d.; 100 Genatosan 8% Pf. 19s. xd., 1,000 Ord. 1s. 10d.; 500 Pink 6% Pf., 15s.; 300 Schweppes Def., 10s. 4½d. Shares wanted (subject).—Allenbury, Camwal, Wright Layman.—Bankers, London County and Westminster.

**G**RANULATOR.—Stokes number 26, new, indispensable to Tablet-makers; packed ready for dispatch with two spare sieves. Apply The Veno Laboratories, Lund Street, Cornbrook, Manchester.

**S**HOP-FITTINGS, comprising Drug Fitting, 14 feet long, with glass-labelled drug drawers, stock cupboards, lockers, shelving, and poison cupboard; 12-feet mahogany and plate-glass Wall Case; 16-feet mahogany and plate-glass Serving Counter, with sliding doors, Dispensing Screen and Counter; and 6-feet Wall Showcase. Particulars on application, Philip Josephs & Sons, Ltd., 95 Old Street London, E.C. 1.

4

YEAR,  
NEW  
EDITION.

## JAY MACK'S LEDGER

6 old 3-year sets, 10/6  
No instructions. Suit repeats.  
6 spare cash books, 4/-  
Mack-Ivor, 45 Hightown, Crewe

**T**ABLET-MAKING Machines, three for power, for h Sale; British make, in complete running or, with spare dies and punches; suitable for Saccharin Tablets. 13/12G, Office of this Paper.

**500,000** CARTONS for Sale, suitable for 8- and 10-ounce Bottles, also quantity of Corks, Rubber Stamps, Discs, Packing materials, Iron Drums, etc.; wharf offers to "C. D. W." c/o Anderson's Advertising Agency King Street, W.C. 2.

## EXCHANGE COLUMN.

Twopence per word: Minimum 20.

## FOR DISPOSAL.

### BOOKS AND PERIODICALS

"THE Modern Physician," by Doctor Andrew Wilson; 12 quite new; what offer? Apply Dickenson, in Tree Long Bennington.

### DRUGS AND CHEMICALS.

FOR Sale, 3 doz. Sanogen (assorted), 2 doz. Durh Duplex 2s. 6d., overstocked; reasonable offer accepted. 88/40, Office of this Paper.

### OPTICAL AND PHOTOGRAPHY.

VERMILION, 7 lb.; Wynne's Exposure Meter; Altern (J) tin), 4" Condenser, Oxy-Hydrogen Jet; wh offers 92/31, Office of this Paper.

## WANTED.

SECOND-HAND copy British Pharmaceutical Cod., 1911 required. Offers to C.B. 76/9, Office of this Paper. GAS Apparatus, Workroom Tables, Mouth Gagnon modern Wilkes, 49 Allen Road, N. 16.

ADVERTISER wishes to hear of anyone with mahogany Showcase for disposal. Address 88/7, Office of this Paper. BOTTLES, 12-oz. Mexicans, any colour, for immediate disposal. special Bottles for Solidified Cologne. State quantities, etc., 14/16H, Office of this Paper.

CAST-IRON CIRCULAR PANS, dimensions at 6" dia 9" deep; also 4" 6" diameter, 8" deep; offers with parts are invited of similar sizes. Poth, Hille & C. Ltd., 6 Avenue. E.C. 3.

PHARMACEUTICAL Books wanted; cash offers on Gower, Bookseller, 41 Voltaire Road, Clapm.

WANTED, Radium Salt, pure or Residues, okApplication Apply Harrison Glew, Radium Laborator, 156 G Road, S.W. 9.



# Alcresta Tablets of Ipecac, Lilly



UNCOATED, DISINTEGRATING  
EASY TO TAKE, CAUSE NO NAUSEA

Permit the Oral Administration of Massive  
Doses of Ipecac

**E**ACH TABLET contains the alkaloids of ten grains of Ipecac, U. S. P., combined with a form of hydrated aluminum silicate. The tablet disintegrates readily, but the compound passes through the acid juices of the stomach unchanged and liberates the Ipecac alkaloids in the alkaline secretions of the intestines; thus the nausea and vomiting are avoided.

Prescribed by Both Physicians and Dentists

BY PHYSICIANS—In Amebic Dysentery, Amebic Infections of the Tonsils, Typhoid Fever and various Intestinal Disturbances.

BY DENTISTS—In Pyorrhea as an aid to dental instrumentation in which they are as efficient as hypodermatic injections of emetine.

*Supplied in Bottles of 40 and 500 Tablets*

*Agents for Great Britain, JOHN MORGAN RICHARDS & SONS, Ltd.*  
46-47 Holborn Viaduct, London, E. C.

## LILLY'S EMPTY GELATIN CAPSULES

*For Both Human and Veterinary Use*

Eight sizes for human use—three sizes for veterinary use—one-fourth, one-half and one-ounce capacities. Clean, firm, thin-walled, highly transparent, quickly soluble, easily joined, close securely. Carried in stock uncolored and pink.

*Many of the sizes are satisfactory containers for small articles, having certain advantages over boxes and glass vials*

PRICES ON REQUEST

# ELI LILLY & COMPANY

Principal Office and Laboratories : INDIANAPOLIS, U.S.A.



# THE BRITISH DRUG HOUSES LTD.

## FICOLAX REVISED PRICES.

On account of the serious and continued increase in the costs of manufacture, we have been compelled to revise prices as from JUNE 1st, as follows :

Size.	Retail Price. (P.A.T.A.)	per doz.
(*Small, 6d. Stamp)	2/-	18/6
(*Large, 1/- Stamp)	4/6	40/-

\* In selling at the new prices, care must be taken to adjust the stamps, which are now double the value of the old.

A supply of gummed slips bearing the new prices will be sent to customers on request.

*The British Drug Houses, Ltd.*

**22-30, Graham Street, City Road,  
LONDON, N.I.**